

**Table A-2a. Age-adjusted percentages (with standard errors) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Total	1.3 (0.07)	13.6 (0.28)	7.6 (0.23)	7.3 (0.22)	11.2 (0.27)	3.4 (0.14)
Sex						
Male	1.5 (0.11)	11.7 (0.38)	5.5 (0.27)	6.4 (0.28)	9.0 (0.37)	2.3 (0.17)
Female	1.2 (0.09)	15.3 (0.41)	9.6 (0.34)	8.3 (0.31)	13.3 (0.37)	4.5 (0.21)
Age (years)						
18–44	0.2 (0.06)	14.7 (0.46)	7.2 (0.35)	5.0 (0.28)	8.5 (0.36)	2.2 (0.19)
45–64	1.6 (0.15)	12.6 (0.43)	8.3 (0.37)	10.8 (0.44)	14.5 (0.50)	4.5 (0.28)
65–74	4.1 (0.38)	12.5 (0.59)	8.6 (0.52)	9.8 (0.53)	14.8 (0.61)	5.1 (0.36)
75 and over	4.5 (0.50)	10.6 (0.70)	6.7 (0.59)	6.8 (0.51)	12.5 (0.75)	5.6 (0.51)
Race						
One race <sup>2</sup>	1.3 (0.08)	13.2 (0.28)	7.5 (0.23)	7.3 (0.22)	11.2 (0.28)	3.4 (0.14)
White	1.4 (0.09)	13.5 (0.32)	7.5 (0.25)	7.6 (0.24)	11.7 (0.31)	3.6 (0.17)
Black or African American	1.1 (0.20)	14.8 (0.85)	9.1 (0.69)	5.5 (0.53)	10.8 (0.73)	3.4 (0.41)
American Indian or Alaska Native	0.4 (0.30)	14.9 (2.35)	9.5 (1.95)	8.5 (2.03)	10.5 (2.03)	*
Asian	0.7 (0.24)	7.8 (1.07)	3.7 (0.60)	6.9 (0.89)	6.6 (0.81)	1.1 (0.33)
Native Hawaiian or Other Pacific Islander	*	*	*	*	*	*
Two or more races <sup>3</sup>	1.9 (0.54)	25.9 (2.48)	14.1 (1.92)	10.5 (1.66)	12.5 (1.86)	5.0 (1.05)
Black or African American, white	-	36.7 (5.34)	18.5 (2.71)	17.1 (4.26)	*	9.7 (1.03)
American Indian or Alaska Native, white	*	28.1 (5.15)	18.7 (5.22)	7.4 (1.80)	10.3 (2.01)	5.0 (1.40)
Hispanic or Latino origin <sup>4</sup> and race						
Hispanic or Latino	1.0 (0.21)	11.5 (0.69)	6.0 (0.50)	4.3 (0.45)	8.0 (0.61)	2.7 (0.34)
Mexican or Mexican American	0.7 (0.18)	8.6 (0.75)	4.8 (0.57)	3.8 (0.58)	7.0 (0.76)	2.3 (0.39)
Not Hispanic or Latino	1.4 (0.08)	14.1 (0.32)	8.1 (0.26)	8.0 (0.25)	11.8 (0.31)	3.6 (0.16)
White, single race	1.5 (0.09)	14.2 (0.36)	8.0 (0.29)	8.4 (0.28)	12.7 (0.36)	3.8 (0.19)
Black or African American, single race	1.1 (0.20)	14.7 (0.87)	9.2 (0.71)	5.6 (0.55)	10.8 (0.76)	3.4 (0.42)
Education <sup>5</sup>						
Less than a high school diploma	3.4 (0.44)	11.0 (0.77)	8.0 (0.65)	5.0 (0.53)	8.6 (0.64)	4.8 (0.45)
High school diploma or GED <sup>6</sup>	2.0 (0.19)	11.2 (0.55)	6.4 (0.40)	6.1 (0.45)	11.0 (0.60)	4.4 (0.37)
Some college	1.4 (0.15)	15.1 (0.56)	8.7 (0.46)	8.3 (0.41)	13.4 (0.56)	4.0 (0.27)
Bachelor's degree or higher	0.6 (0.10)	12.4 (0.43)	6.7 (0.34)	9.9 (0.39)	12.7 (0.46)	2.6 (0.22)
Current employment status <sup>7</sup>						
Employed	0.5 (0.07)	12.3 (0.35)	6.4 (0.27)	6.7 (0.26)	10.2 (0.32)	2.7 (0.20)
Full-time	0.3 (0.06)	11.5 (0.39)	6.0 (0.30)	6.6 (0.29)	9.6 (0.40)	2.7 (0.26)
Part-time	0.8 (0.18)	15.1 (0.92)	8.0 (0.73)	7.5 (0.65)	11.3 (0.79)	2.9 (0.48)
Not employed but has worked previously	2.3 (0.17)	16.7 (0.70)	10.4 (0.54)	8.1 (0.48)	13.4 (0.61)	5.5 (0.34)
Not employed and has never worked	1.9 (0.49)	13.1 (1.42)	9.4 (1.24)	6.5 (1.17)	9.7 (1.35)	3.7 (0.88)

**Table A-2a. Age-adjusted percentages (with standard errors) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
<b>Family income<sup>8</sup></b>						
Less than \$35,000	2.8 (0.21)	15.8 (0.53)	10.0 (0.44)	6.7 (0.41)	11.2 (0.48)	5.2 (0.34)
\$35,000 or more	0.9 (0.08)	12.9 (0.35)	6.9 (0.27)	7.5 (0.26)	11.2 (0.33)	2.9 (0.17)
\$35,000–\$49,999	1.6 (0.28)	12.9 (0.76)	7.4 (0.59)	6.4 (0.54)	10.5 (0.69)	4.1 (0.41)
\$50,000–\$74,999	1.1 (0.17)	13.4 (0.65)	6.8 (0.47)	6.4 (0.45)	11.7 (0.67)	3.7 (0.41)
\$75,000–\$99,999	0.8 (0.16)	12.8 (0.78)	6.8 (0.63)	8.4 (0.60)	11.9 (0.70)	2.4 (0.30)
\$100,000 or more	0.5 (0.12)	12.7 (0.56)	6.7 (0.43)	8.2 (0.40)	10.7 (0.52)	2.3 (0.25)
<b>Poverty status<sup>9</sup></b>						
Poor	2.8 (0.30)	17.2 (0.81)	11.6 (0.68)	7.0 (0.60)	11.4 (0.75)	6.2 (0.52)
Near poor	2.7 (0.27)	14.1 (0.67)	8.7 (0.53)	6.0 (0.50)	10.9 (0.62)	4.6 (0.44)
Not poor	0.9 (0.07)	13.0 (0.34)	6.9 (0.27)	7.7 (0.26)	11.3 (0.32)	2.9 (0.16)
<b>Health insurance coverage<sup>10</sup></b>						
<b>Under 65:</b>						
Private	0.3 (0.05)	13.8 (0.40)	7.2 (0.32)	7.2 (0.28)	10.9 (0.36)	2.4 (0.17)
Medicaid	2.7 (0.38)	18.9 (0.97)	12.5 (0.79)	7.0 (0.70)	10.8 (0.77)	5.9 (0.54)
Other coverage	1.8 (0.35)	13.5 (1.55)	8.3 (1.38)	9.2 (1.36)	17.2 (1.92)	5.0 (0.90)
Uninsured	0.7 (0.18)	10.2 (0.75)	5.1 (0.54)	5.9 (0.60)	7.1 (0.66)	2.7 (0.39)
<b>65 and over:</b>						
Private	3.6 (0.44)	11.7 (0.72)	7.4 (0.58)	8.4 (0.57)	13.9 (0.78)	5.4 (0.52)
Medicare and Medicaid	8.7 (1.34)	19.2 (2.06)	14.8 (1.94)	7.0 (1.18)	14.0 (1.66)	8.9 (1.38)
Medicare Advantage	3.8 (0.59)	11.3 (0.86)	7.0 (0.72)	9.8 (0.77)	14.4 (0.90)	5.1 (0.57)
Medicare only	3.9 (0.72)	10.2 (1.14)	7.5 (1.01)	7.3 (0.78)	11.7 (1.10)	4.5 (0.86)
Other coverage	5.9 (1.00)	8.9 (1.28)	6.6 (1.20)	7.5 (1.06)	14.3 (1.51)	4.5 (0.85)
Uninsured	*	*	*	*	*	*
<b>Marital status</b>						
Married	1.0 (0.09)	11.7 (0.39)	6.5 (0.31)	7.9 (0.29)	11.3 (0.36)	2.7 (0.18)
Widowed	2.1 (0.34)	11.6 (2.27)	7.5 (1.80)	7.9 (1.95)	11.4 (1.88)	4.9 (0.92)
Divorced or separated	2.6 (0.36)	14.5 (0.79)	8.1 (0.55)	7.4 (0.62)	12.7 (0.76)	5.5 (0.50)
Never married	1.3 (0.24)	16.4 (0.80)	9.7 (0.66)	6.7 (0.44)	11.5 (0.63)	3.2 (0.34)
Living with a partner	2.1 (0.52)	13.5 (1.07)	7.1 (0.78)	6.2 (0.65)	12.0 (1.18)	4.6 (0.65)
<b>Place of residence<sup>11</sup></b>						
Large MSA	1.1 (0.10)	13.1 (0.38)	7.4 (0.29)	7.1 (0.28)	10.2 (0.33)	2.9 (0.18)
Small MSA	1.5 (0.14)	14.3 (0.54)	8.2 (0.45)	8.0 (0.46)	12.2 (0.57)	3.6 (0.25)
Not in MSA	1.9 (0.23)	13.8 (0.82)	7.2 (0.60)	6.9 (0.72)	13.4 (0.88)	5.1 (0.48)
<b>Region</b>						
Northeast	1.1 (0.16)	14.9 (0.68)	9.1 (0.58)	7.9 (0.51)	9.9 (0.54)	3.2 (0.33)
Midwest	1.7 (0.18)	13.5 (0.58)	7.3 (0.39)	6.1 (0.36)	10.5 (0.55)	3.3 (0.31)
South	1.3 (0.12)	12.5 (0.45)	7.0 (0.36)	6.5 (0.34)	13.4 (0.48)	4.0 (0.25)
West	1.1 (0.15)	14.3 (0.63)	8.0 (0.55)	9.2 (0.56)	9.4 (0.60)	2.8 (0.27)

**Table A-2a. Age-adjusted percentages (with standard errors) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Hispanic or Latino origin <sup>4</sup> , race, and sex						
Hispanic or Latino, male	1.1 (0.34)	9.6 (0.95)	3.4 (0.62)	4.0 (0.70)	6.1 (0.90)	2.2 (0.51)
Hispanic or Latina, female	0.9 (0.24)	13.2 (0.97)	8.5 (0.76)	4.7 (0.63)	9.7 (0.80)	3.1 (0.44)
Not Hispanic or Latino:						
White, single race, male	1.7 (0.14)	12.2 (0.45)	5.9 (0.34)	7.1 (0.36)	9.9 (0.46)	2.2 (0.20)
White, single race, female	1.3 (0.12)	16.2 (0.54)	10.0 (0.44)	9.7 (0.41)	15.4 (0.51)	5.2 (0.30)
Black or African American, single race, male	1.0 (0.30)	13.1 (1.32)	6.8 (0.99)	5.2 (0.77)	9.0 (1.10)	2.3 (0.46)
Black or African American, single race, female	1.2 (0.26)	15.8 (1.12)	11.0 (0.98)	6.1 (0.74)	12.3 (0.99)	4.3 (0.64)

\* Estimate does not meet NCHS standards of reliability.

- Quantity zero.

<sup>1</sup> Respondents were asked in two separate questions if they had ever been told by a doctor or other health professional that they had emphysema or asthma. Respondents who had been told they had asthma were asked if they still had asthma. Respondents were asked in three separate questions if they had been told by a doctor or other health professional in the past 12 months that they had hay fever, sinusitis, or chronic bronchitis. A person may be represented in more than one column.

<sup>2</sup> Refers to persons who indicated only a single race group, including those of Hispanic or Latino origin.

<sup>3</sup> Refers to persons who indicated more than one race group, including those of Hispanic or Latino origin. Only two combinations of multiple race groups are shown due to small sample sizes for other combinations.

<sup>4</sup> Refers to persons who are of Hispanic or Latino origin and may be of any race or combination of races. "Not Hispanic or Latino" refers to persons who are not of Hispanic or Latino origin, regardless of race.

<sup>5</sup> Shown only for adults aged 25 and over. Estimates are age adjusted to the projected 2000 U.S. population as the standard population using four age groups: 25-44, 45-64, 65-74, and 75 and over.

<sup>6</sup> GED is General Educational Development high school equivalency diploma.

<sup>7</sup> "Full-time" employment is 35 or more hours per week. "Part-time" employment is 34 or fewer hours per week.

<sup>8</sup> Includes persons who reported a dollar amount or who would not provide a dollar amount but provided an income interval.

<sup>9</sup> "Poor" persons are defined as having income below the poverty threshold. "Near poor" persons have incomes of 100% to less than 200% of the poverty threshold. "Not poor" persons have incomes that are 200% of the poverty threshold or greater.

<sup>10</sup> Based on a hierarchy of mutually exclusive categories. Adults with more than one type of health insurance were assigned to the first appropriate category in the hierarchy. "Uninsured" includes adults who had no coverage as well as those who had only Indian Health Service coverage or had only a private plan that paid for one type of service such as accidents or dental care.

<sup>11</sup> MSA is metropolitan statistical area. Large MSAs have a population size of 1 million or more; small MSAs have a population size of less than 1 million. "Not in MSA" consists of persons not living in a metropolitan statistical area.

NOTES: Estimates are based on household interviews of a sample of the civilian noninstitutionalized population. This table is based on data from the Sample Adult file and was weighted using the Sample Adult weight. Unknowns for the columns were not included in the denominators when calculating percentages. Percentages may not add to totals due to rounding. "Total" includes other races not shown separately and persons with unknown education, family income, poverty status, and health insurance characteristics. Unless otherwise specified, estimates are age-adjusted using the projected 2000 U.S. population as the standard population and using four age groups: 18-44, 45-64, 65-74, and 75 and over. Estimates for age groups are not age-adjusted. For more information on the data source, methods, and definitions used for this table, refer to Technical Notes for Summary Health Statistics Tables: National Health Interview Survey (available from <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>).

Suggested citation: Villarreal MA, Blackwell DL, Jen A. Tables of Summary Health Statistics for U.S. Adults: 2018 National Health Interview Survey. National Center for Health Statistics.

2019. Available from: <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2018.

**Table A-2b. Frequencies (in thousands) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	All adults aged 18 and over	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Total	249,456	3,780	33,401	19,223	19,174	28,949	9,003
Sex							
Male	120,442	1,970	13,747	6,665	7,980	11,082	2,855
Female	129,014	1,810	19,654	12,559	11,193	17,867	6,148
Age (years)							
18–44	115,008	250	16,932	8,315	5,778	9,821	2,548
45–64	83,038	1,349	10,458	6,880	8,987	12,012	3,734
65–74	30,809	1,264	3,835	2,648	3,018	4,546	1,561
75 and over	20,601	918	2,175	1,380	1,392	2,570	1,161
Race							
One race <sup>2</sup>	243,677	3,697	31,857	18,403	18,593	28,283	8,720
White	193,454	3,257	25,572	14,662	15,483	23,539	7,344
Black or African American	30,813	327	4,559	2,839	1,729	3,379	1,072
American Indian or Alaska Native	2,810	12	440	278	238	294	*
Asian	15,960	101	1,211	572	1,116	1,037	174
Native Hawaiian or Other Pacific Islander	640	*	*	*	*	*	*
Two or more races <sup>3</sup>	5,779	83	1,543	820	581	667	283
Black or African American, white	1,567	-	505	203	*	*	*
American Indian or Alaska Native, white	1,879	*	509	324	163	224	109
Hispanic or Latino origin <sup>4</sup> and race							
Hispanic or Latino	40,749	309	4,624	2,322	1,589	3,068	995
Mexican or Mexican American	24,415	99	2,114	1,109	834	1,606	451
Not Hispanic or Latino	208,706	3,471	28,777	16,902	17,585	25,881	8,008
White, single race	157,289	2,978	21,617	12,586	14,119	20,830	6,434
Black or African American, single race	29,089	313	4,280	2,704	1,678	3,237	1,030
Education <sup>5</sup>							
Less than a high school diploma	24,710	978	2,823	2,092	1,361	2,413	1,317
High school diploma or GED <sup>6</sup>	52,455	1,295	5,836	3,484	3,337	5,991	2,422
Some college	62,770	1,015	9,359	5,509	5,433	8,657	2,602
Bachelor's degree or higher	78,964	463	9,802	5,349	8,007	10,179	2,055
Current employment status <sup>7</sup>							
Employed	158,301	687	20,064	10,464	11,287	16,296	3,846
Full-time	129,152	449	15,527	7,987	9,086	13,027	3,030
Part-time	27,087	232	4,230	2,259	2,073	3,024	752
Not employed but has worked previously	78,269	2,820	11,586	7,505	7,107	11,508	4,740
Not employed and has never worked	12,669	261	1,700	1,204	755	1,133	402

**Table A-2b. Frequencies (in thousands) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	All adults aged 18 and over	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Family income <sup>8</sup>							
Less than \$35,000	58,573	1,894	9,019	5,762	4,088	6,901	3,114
\$35,000 or more	166,985	1,492	21,428	11,658	13,180	19,201	4,952
\$35,000–\$49,999	24,817	448	3,203	1,873	1,633	2,682	1,057
\$50,000–\$74,999	38,139	508	5,041	2,645	2,563	4,599	1,452
\$75,000–\$99,999	30,794	247	3,909	2,111	2,715	3,800	791
\$100,000 or more	73,236	289	9,275	5,029	6,268	8,121	1,653
Poverty status <sup>9</sup>							
Poor	24,028	632	4,129	2,773	1,653	2,679	1,454
Near poor	40,315	1,162	5,629	3,501	2,460	4,456	1,852
Not poor	173,576	1,742	22,262	12,041	14,131	20,316	5,245
Health insurance coverage <sup>10</sup>							
Under 65:							
Private	136,568	459	18,561	9,807	10,503	15,468	3,489
Medicaid	24,908	645	4,696	3,086	1,718	2,660	1,437
Other coverage	9,857	299	1,421	921	1,047	1,836	635
Uninsured	25,525	176	2,627	1,308	1,466	1,793	687
65 and over:							
Private	21,274	734	2,512	1,596	1,847	3,016	1,147
Medicare and Medicaid	3,529	311	686	532	256	492	308
Medicare Advantage	13,113	499	1,495	926	1,299	1,903	660
Medicare only	7,945	320	809	603	596	942	358
Other coverage	5,181	308	478	358	394	746	239
Uninsured	274	*	*	*	*	*	*
Marital status							
Married	130,518	1,652	15,104	8,851	11,367	15,770	3,959
Widowed	14,263	647	1,787	1,194	1,209	2,157	1,044
Divorced or separated	27,100	872	3,986	2,534	2,421	3,820	1,754
Never married	58,300	374	9,802	5,234	2,983	5,214	1,449
Living with a partner	18,856	235	2,671	1,371	1,149	1,894	785
Place of residence <sup>11</sup>							
Large MSA	142,041	1,714	18,331	10,585	10,544	14,875	4,337
Small MSA	75,044	1,265	10,680	6,210	6,230	9,458	2,858
Not in MSA	32,370	802	4,389	2,429	2,399	4,616	1,808
Region							
Northeast	43,262	631	6,255	3,911	3,706	4,498	1,469
Midwest	54,818	1,020	7,267	4,017	3,553	5,938	1,890
South	92,043	1,405	11,468	6,536	6,362	12,850	3,934
West	59,333	724	8,410	4,760	5,553	5,662	1,711

**Table A-2b. Frequencies (in thousands) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	All adults aged 18 and over	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Hispanic or Latino origin <sup>4</sup> , race, and sex							
Hispanic or Latino, male	20,279	166	1,965	661	679	1,171	425
Hispanic or Latina, female	20,470	143	2,659	1,661	910	1,898	570
Not Hispanic or Latino:							
White, single race, male	76,416	1,610	8,875	4,496	5,854	7,866	1,871
White, single race, female	80,872	1,368	12,742	8,091	8,265	12,964	4,563
Black or African American, single race, male	13,250	120	1,758	923	684	1,200	312
Black or African American, single race, female	15,840	192	2,522	1,780	994	2,037	719

\* Corresponding crude percentage for the frequency does not meet NCHS standards of reliability, so the frequency is not shown.

- Quantity zero.

<sup>1</sup> Respondents were asked in two separate questions if they had ever been told by a doctor or other health professional that they had emphysema or asthma. Respondents who had been told they had asthma were asked if they still had asthma. Respondents were asked in three separate questions if they had been told by a doctor or other health professional in the past 12 months that they had hay fever, sinusitis, or chronic bronchitis. A person may be represented in more than one column.

<sup>2</sup> Refers to persons who indicated only a single race group, including those of Hispanic or Latino origin.

<sup>3</sup> Refers to persons who indicated more than one race group, including those of Hispanic or Latino origin. Only two combinations of multiple race groups are shown due to small sample sizes for other combinations.

<sup>4</sup> Refers to persons who are of Hispanic or Latino origin and may be of any race or combination of races. "Not Hispanic or Latino" refers to persons who are not of Hispanic or Latino origin, regardless of race.

<sup>5</sup> Shown only for adults aged 25 and over.

<sup>6</sup> GED is General Educational Development high school equivalency diploma.

<sup>7</sup> "Full-time" employment is 35 or more hours per week. "Part-time" employment is 34 or fewer hours per week.

<sup>8</sup> Includes persons in families that reported either a dollar amount or would not provide a dollar amount but provided an income interval.

<sup>9</sup> "Poor" persons live in families defined as below the poverty threshold. "Near poor" persons live in families with incomes of 100% to less than 200% of the poverty threshold. "Not poor" persons live in families with incomes that are 200% of the poverty threshold or greater.

<sup>10</sup> Based on a hierarchy of mutually exclusive categories. Adults with more than one type of health insurance were assigned to the first appropriate category in the hierarchy. "Uninsured" includes adults who had no coverage as well as those who had only Indian Health Service coverage or had only a private plan that paid for one type of service such as accidents or dental care.

<sup>11</sup> MSA is metropolitan statistical area. Large MSAs have a population size of 1 million or more; small MSAs have a population size of less than 1 million. "Not in MSA" consists of persons not living in a metropolitan statistical area.

NOTES: Estimates are based on household interviews of a sample of the civilian noninstitutionalized population. This table is based on data from the Sample Adult file and was weighted using the Sample Adult weight. Unknowns for the columns were not included in the frequencies, but they are included in the "All adults aged 18 and over" column. "Total" includes other races not shown separately and persons with unknown education, family income, poverty status, and health insurance characteristics. For more information on the data source, methods, and definitions used for this table, refer to Technical Notes for Summary Health Statistics Tables: National Health Interview Survey (available from <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>).

Suggested citation: Villarreal MA, Blackwell DL, Jen A. Tables of Summary Health Statistics for U.S. Adults: 2018 National Health Interview Survey. National Center for Health Statistics. 2019. Available from: <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2018.

**Table A-2c. Crude percentages (with standard errors) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Total	1.5 (0.08)	13.4 (0.27)	7.7 (0.22)	7.7 (0.22)	11.6 (0.28)	3.6 (0.14)
Sex						
Male	1.6 (0.12)	11.4 (0.36)	5.5 (0.26)	6.6 (0.29)	9.2 (0.37)	2.4 (0.17)
Female	1.4 (0.11)	15.2 (0.39)	9.8 (0.33)	8.7 (0.31)	13.9 (0.37)	4.8 (0.22)
Age (years)						
18–44	0.2 (0.06)	14.7 (0.46)	7.2 (0.35)	5.0 (0.28)	8.5 (0.36)	2.2 (0.19)
45–64	1.6 (0.15)	12.6 (0.43)	8.3 (0.37)	10.8 (0.44)	14.5 (0.50)	4.5 (0.28)
65–74	4.1 (0.38)	12.5 (0.59)	8.6 (0.52)	9.8 (0.53)	14.8 (0.61)	5.1 (0.36)
75 and over	4.5 (0.50)	10.6 (0.70)	6.7 (0.59)	6.8 (0.51)	12.5 (0.75)	5.6 (0.51)
Race						
One race <sup>2</sup>	1.5 (0.09)	13.1 (0.27)	7.6 (0.22)	7.6 (0.22)	11.6 (0.28)	3.6 (0.15)
White	1.7 (0.10)	13.2 (0.30)	7.6 (0.24)	8.0 (0.25)	12.2 (0.31)	3.8 (0.17)
Black or African American	1.1 (0.19)	14.8 (0.86)	9.3 (0.70)	5.6 (0.54)	11.0 (0.77)	3.5 (0.43)
American Indian or Alaska Native	0.4 (0.31)	15.7 (2.49)	9.9 (2.09)	8.5 (2.13)	10.4 (2.15)	*
Asian	0.6 (0.24)	7.6 (1.06)	3.6 (0.59)	7.0 (0.90)	6.5 (0.80)	1.1 (0.30)
Native Hawaiian or Other Pacific Islander	*	*	*	*	*	*
Two or more races <sup>3</sup>	1.4 (0.41)	26.8 (2.65)	14.3 (2.03)	10.1 (1.61)	11.5 (1.81)	4.9 (1.07)
Black or African American, white	-	32.2 (5.55)	13.0 (3.58)	*	*	*
American Indian or Alaska Native, white	*	27.2 (4.62)	17.3 (4.56)	8.7 (2.13)	11.9 (2.39)	5.8 (1.59)
Hispanic or Latino origin <sup>4</sup> and race						
Hispanic or Latino	0.8 (0.17)	11.4 (0.69)	5.7 (0.48)	3.9 (0.41)	7.5 (0.59)	2.4 (0.32)
Mexican or Mexican American	0.4 (0.11)	8.7 (0.77)	4.5 (0.57)	3.4 (0.53)	6.6 (0.73)	1.8 (0.34)
Not Hispanic or Latino	1.7 (0.10)	13.8 (0.29)	8.1 (0.25)	8.4 (0.25)	12.4 (0.31)	3.8 (0.16)
White, single race	1.9 (0.12)	13.8 (0.32)	8.0 (0.27)	9.0 (0.28)	13.3 (0.35)	4.1 (0.19)
Black or African American, single race	1.1 (0.20)	14.8 (0.88)	9.3 (0.73)	5.8 (0.56)	11.1 (0.80)	3.5 (0.45)
Education <sup>5</sup>						
Less than a high school diploma	4.0 (0.44)	11.4 (0.76)	8.5 (0.65)	5.5 (0.53)	9.8 (0.67)	5.3 (0.46)
High school diploma or GED <sup>6</sup>	2.5 (0.23)	11.1 (0.51)	6.7 (0.41)	6.4 (0.42)	11.4 (0.57)	4.6 (0.35)
Some college	1.6 (0.17)	14.9 (0.54)	8.8 (0.45)	8.7 (0.42)	13.8 (0.55)	4.1 (0.27)
Bachelor's degree or higher	0.6 (0.10)	12.4 (0.43)	6.8 (0.34)	10.1 (0.41)	12.9 (0.47)	2.6 (0.22)
Current employment status <sup>7</sup>						
Employed	0.4 (0.06)	12.7 (0.34)	6.6 (0.27)	7.1 (0.27)	10.3 (0.32)	2.4 (0.16)
Full-time	0.3 (0.06)	12.0 (0.36)	6.2 (0.28)	7.0 (0.28)	10.1 (0.34)	2.3 (0.17)
Part-time	0.9 (0.19)	15.6 (0.95)	8.4 (0.76)	7.7 (0.67)	11.2 (0.79)	2.8 (0.46)
Not employed but has worked previously	3.6 (0.22)	14.8 (0.44)	9.6 (0.35)	9.1 (0.39)	14.7 (0.48)	6.1 (0.29)
Not employed and has never worked	2.1 (0.54)	13.4 (1.39)	9.5 (1.20)	6.0 (0.94)	9.0 (1.15)	3.2 (0.64)

**Table A-2c. Crude percentages (with standard errors) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Family income <sup>8</sup>						
Less than \$35,000	3.2 (0.23)	15.4 (0.50)	9.9 (0.42)	7.0 (0.40)	11.8 (0.48)	5.3 (0.33)
\$35,000 or more	0.9 (0.08)	12.8 (0.33)	7.0 (0.27)	7.9 (0.27)	11.5 (0.33)	3.0 (0.17)
\$35,000–\$49,999	1.8 (0.30)	12.9 (0.73)	7.6 (0.58)	6.6 (0.55)	10.8 (0.69)	4.3 (0.42)
\$50,000–\$74,999	1.3 (0.21)	13.2 (0.62)	6.9 (0.46)	6.7 (0.46)	12.1 (0.66)	3.8 (0.40)
\$75,000–\$99,999	0.8 (0.17)	12.7 (0.74)	6.9 (0.61)	8.8 (0.60)	12.3 (0.69)	2.6 (0.31)
\$100,000 or more	0.4 (0.08)	12.7 (0.54)	6.9 (0.43)	8.6 (0.42)	11.1 (0.52)	2.3 (0.24)
Poverty status <sup>9</sup>						
Poor	2.6 (0.29)	17.2 (0.81)	11.6 (0.68)	6.9 (0.60)	11.2 (0.75)	6.1 (0.52)
Near poor	2.9 (0.29)	14.0 (0.65)	8.7 (0.52)	6.1 (0.48)	11.1 (0.61)	4.6 (0.42)
Not poor	1.0 (0.08)	12.8 (0.32)	6.9 (0.25)	8.2 (0.27)	11.7 (0.32)	3.0 (0.16)
Health insurance coverage <sup>10</sup>						
Under 65:						
Private	0.3 (0.05)	13.6 (0.39)	7.2 (0.31)	7.7 (0.30)	11.3 (0.37)	2.6 (0.18)
Medicaid	2.6 (0.38)	18.9 (0.98)	12.4 (0.79)	6.9 (0.70)	10.7 (0.77)	5.8 (0.55)
Other coverage	3.0 (0.59)	14.4 (1.30)	9.4 (1.15)	10.6 (1.34)	18.6 (1.66)	6.4 (0.96)
Uninsured	0.7 (0.17)	10.3 (0.76)	5.1 (0.55)	5.7 (0.59)	7.0 (0.66)	2.7 (0.39)
65 and over:						
Private	3.5 (0.41)	11.8 (0.71)	7.5 (0.57)	8.7 (0.60)	14.2 (0.77)	5.4 (0.51)
Medicare and Medicaid	8.8 (1.35)	19.4 (2.03)	15.1 (1.91)	7.3 (1.23)	14.0 (1.60)	8.7 (1.34)
Medicare Advantage	3.8 (0.58)	11.4 (0.86)	7.1 (0.72)	9.9 (0.78)	14.5 (0.90)	5.0 (0.56)
Medicare only	4.0 (0.74)	10.2 (1.12)	7.6 (1.00)	7.5 (0.83)	11.9 (1.09)	4.5 (0.80)
Other coverage	6.0 (1.02)	9.2 (1.35)	6.9 (1.28)	7.6 (1.06)	14.4 (1.53)	4.6 (0.86)
Uninsured	*	*	*	*	*	*
Marital status						
Married	1.3 (0.11)	11.6 (0.36)	6.8 (0.30)	8.7 (0.31)	12.1 (0.37)	3.0 (0.18)
Widowed	4.5 (0.52)	12.5 (0.83)	8.4 (0.70)	8.5 (0.68)	15.1 (0.86)	7.3 (0.67)
Divorced or separated	3.2 (0.31)	14.8 (0.63)	9.4 (0.50)	8.9 (0.60)	14.1 (0.67)	6.5 (0.45)
Never married	0.6 (0.13)	16.8 (0.69)	9.0 (0.51)	5.1 (0.38)	8.9 (0.52)	2.5 (0.29)
Living with a partner	1.2 (0.29)	14.2 (1.04)	7.3 (0.73)	6.1 (0.64)	10.0 (0.84)	4.2 (0.54)
Place of residence <sup>11</sup>						
Large MSA	1.2 (0.11)	12.9 (0.36)	7.5 (0.29)	7.4 (0.29)	10.5 (0.33)	3.1 (0.18)
Small MSA	1.7 (0.16)	14.2 (0.51)	8.3 (0.43)	8.3 (0.46)	12.6 (0.57)	3.8 (0.26)
Not in MSA	2.5 (0.28)	13.6 (0.73)	7.5 (0.57)	7.4 (0.73)	14.3 (0.90)	5.6 (0.46)
Region						
Northeast	1.5 (0.21)	14.5 (0.63)	9.1 (0.54)	8.6 (0.54)	10.4 (0.53)	3.4 (0.34)
Midwest	1.9 (0.21)	13.3 (0.54)	7.3 (0.38)	6.5 (0.37)	10.8 (0.56)	3.4 (0.30)
South	1.5 (0.13)	12.5 (0.43)	7.1 (0.35)	6.9 (0.35)	14.0 (0.49)	4.3 (0.25)
West	1.2 (0.16)	14.2 (0.61)	8.0 (0.55)	9.4 (0.57)	9.6 (0.61)	2.9 (0.28)



**Table A-2c. Crude percentages (with standard errors) of selected respiratory diseases among adults aged 18 and over, by selected characteristics: United States, 2018**

Selected characteristic	Emphysema <sup>1</sup>	Ever had asthma <sup>1</sup>	Still has asthma <sup>1</sup>	Hay fever <sup>1</sup>	Sinusitis <sup>1</sup>	Chronic bronchitis <sup>1</sup>
Hispanic or Latino origin <sup>4</sup> , race, and sex						
Hispanic or Latino, male	0.8 (0.29)	9.7 (0.94)	3.3 (0.55)	3.4 (0.58)	5.8 (0.88)	2.1 (0.52)
Hispanic or Latina, female	0.7 (0.19)	13.0 (0.97)	8.1 (0.74)	4.4 (0.61)	9.3 (0.79)	2.8 (0.39)
Not Hispanic or Latino:						
White, single race, male	2.1 (0.17)	11.6 (0.41)	5.9 (0.32)	7.7 (0.36)	10.3 (0.45)	2.5 (0.20)
White, single race, female	1.7 (0.15)	15.8 (0.48)	10.0 (0.41)	10.2 (0.41)	16.0 (0.49)	5.6 (0.29)
Black or African American, single race, male	0.9 (0.27)	13.3 (1.34)	7.0 (1.00)	5.2 (0.77)	9.1 (1.10)	2.4 (0.47)
Black or African American, single race, female	1.2 (0.28)	16.0 (1.14)	11.3 (1.01)	6.3 (0.76)	12.9 (1.07)	4.5 (0.71)

\* Estimate does not meet NCHS standards of reliability.

- Quantity zero.

<sup>1</sup> Respondents were asked in two separate questions if they had ever been told by a doctor or other health professional that they had emphysema or asthma. Respondents who had been told they had asthma were asked if they still had asthma. Respondents were asked in three separate questions if they had been told by a doctor or other health professional in the past 12 months that they had hay fever, sinusitis, or chronic bronchitis. A person may be represented in more than one column.

<sup>2</sup> Refers to persons who indicated only a single race group, including those of Hispanic or Latino origin.

<sup>3</sup> Refers to persons who indicated more than one race group, including those of Hispanic or Latino origin. Only two combinations of multiple race groups are shown due to small sample sizes for other combinations.

<sup>4</sup> Refers to persons who are of Hispanic or Latino origin and may be of any race or combination of races. "Not Hispanic or Latino" refers to persons who are not of Hispanic or Latino origin, regardless of race.

<sup>5</sup> Shown only for adults aged 25 and over.

<sup>6</sup> GED is General Educational Development high school equivalency diploma.

<sup>7</sup> "Full-time" employment is 35 or more hours per week. "Part-time" employment is 34 or fewer hours per week.

<sup>8</sup> Includes persons in families that reported either a dollar amount or would not provide a dollar amount but provided an income interval.

<sup>9</sup> "Poor" persons live in families defined as below the poverty threshold. "Near poor" persons live in families with incomes of 100% to less than 200% of the poverty threshold. "Not poor" persons live in families with incomes that are 200% of the poverty threshold or greater.

<sup>10</sup> Based on a hierarchy of mutually exclusive categories. Adults with more than one type of health insurance were assigned to the first appropriate category in the hierarchy. "Uninsured" includes adults who had no coverage as well as those who had only Indian Health Service coverage or had only a private plan that paid for one type of service such as accidents or dental care.

<sup>11</sup> MSA is metropolitan statistical area. Large MSAs have a population size of 1 million or more; small MSAs have a population size of less than 1 million. "Not in MSA" consists of persons not living in a metropolitan statistical area.

NOTES: Estimates are based on household interviews of a sample of the civilian noninstitutionalized population. This table is based on data from the Sample Adult file and was weighted using the Sample Adult weight. Unknowns for the columns were not included in the denominators when calculating percentages. Percentages may not add to totals due to rounding. "Total" includes other races not shown separately and persons with unknown education, family income, poverty status, and health insurance characteristics. For more information on the data source, methods, and definitions used for this table, refer to Technical Notes for Summary Health Statistics Tables: National Health Interview Survey (available from <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>).

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SOURCE: NCHS, National Health Interview Survey, 2018.