

**Table A-4a. Age-adjusted percentages (with standard errors) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Total	8.8 (0.19)	5.9 (0.17)	1.9 (0.09)	1.7 (0.10)	21.6 (0.27)	28.4 (0.36)
Sex						
Male	9.9 (0.29)	5.2 (0.24)	2.0 (0.14)	1.8 (0.14)	18.4 (0.36)	26.0 (0.50)
Female	7.8 (0.26)	6.5 (0.24)	1.9 (0.12)	1.6 (0.13)	24.5 (0.39)	30.6 (0.46)
Age (years)						
18–44	2.7 (0.18)	3.8 (0.21)	0.6 (0.08)	1.1 (0.13)	7.0 (0.27)	16.8 (0.45)
45–64	13.2 (0.46)	7.2 (0.33)	2.0 (0.18)	2.7 (0.21)	30.3 (0.61)	38.0 (0.65)
65–74	20.1 (0.77)	9.4 (0.51)	4.7 (0.39)	2.4 (0.28)	48.4 (0.90)	46.2 (0.88)
75 and over	19.8 (0.98)	10.8 (0.70)	6.8 (0.62)	1.4 (0.24)	55.4 (1.10)	49.2 (1.18)
Race						
One race <sup>2</sup>	8.8 (0.20)	5.9 (0.17)	1.9 (0.09)	1.7 (0.10)	21.5 (0.28)	28.3 (0.36)
White	8.3 (0.21)	6.1 (0.19)	1.9 (0.10)	1.7 (0.11)	22.2 (0.30)	29.5 (0.39)
Black or African American	11.4 (0.63)	5.6 (0.52)	2.4 (0.32)	1.3 (0.23)	21.9 (0.79)	26.1 (0.98)
American Indian or Alaska Native	16.6 (3.02)	3.3 (0.94)	2.7 (0.97)	4.1 (1.05)	23.1 (3.83)	21.4 (2.74)
Asian	9.4 (0.94)	4.3 (0.67)	1.2 (0.36)	1.8 (0.50)	13.1 (1.10)	19.5 (1.42)
Native Hawaiian or Other Pacific Islander	*	*	*	*	*	*
Two or more races <sup>3</sup>	10.7 (1.55)	8.2 (1.28)	1.6 (0.54)	3.3 (0.90)	25.5 (1.76)	35.7 (2.53)
Black or African American, white	*	*	*	*	19.1 (4.68)	36.3 (5.13)
American Indian or Alaska Native, white	11.9 (2.10)	12.0 (2.24)	1.9 (0.73)	*	31.9 (3.10)	37.9 (3.48)
Hispanic or Latino origin <sup>4</sup> and race						
Hispanic or Latino	13.2 (0.73)	4.3 (0.40)	2.7 (0.35)	2.5 (0.32)	16.5 (0.72)	21.3 (0.90)
Mexican or Mexican American	15.6 (0.93)	4.2 (0.51)	2.8 (0.47)	2.4 (0.40)	16.0 (0.91)	21.2 (1.11)
Not Hispanic or Latino	8.2 (0.20)	6.1 (0.19)	1.8 (0.09)	1.6 (0.10)	22.4 (0.30)	29.6 (0.38)
White, single race	7.5 (0.21)	6.4 (0.21)	1.8 (0.10)	1.6 (0.11)	23.4 (0.34)	31.3 (0.42)
Black or African American, single race	11.5 (0.65)	5.5 (0.53)	2.4 (0.33)	1.2 (0.23)	21.9 (0.82)	25.9 (0.99)
Education <sup>5</sup>						
Less than a high school diploma	16.1 (0.86)	8.7 (0.66)	3.4 (0.37)	3.2 (0.50)	25.0 (0.94)	32.1 (1.16)
High school diploma or GED <sup>6</sup>	11.0 (0.45)	6.4 (0.42)	2.4 (0.22)	1.9 (0.21)	26.0 (0.61)	32.7 (0.82)
Some college	10.6 (0.43)	7.7 (0.36)	2.3 (0.20)	2.2 (0.19)	27.2 (0.58)	34.3 (0.69)
Bachelor's degree or higher	6.6 (0.32)	5.3 (0.31)	1.4 (0.17)	1.3 (0.16)	21.3 (0.51)	27.1 (0.59)
Current employment status <sup>7</sup>						
Employed	6.8 (0.31)	5.2 (0.27)	1.1 (0.22)	1.2 (0.12)	19.4 (0.45)	26.6 (0.55)
Full-time	6.5 (0.40)	5.3 (0.41)	0.9 (0.23)	1.2 (0.13)	18.5 (0.63)	26.3 (0.71)
Part-time	6.9 (0.59)	6.0 (0.56)	1.3 (0.36)	1.2 (0.22)	20.0 (0.87)	27.1 (1.04)
Not employed but has worked previously	12.1 (0.44)	7.5 (0.36)	3.4 (0.25)	3.0 (0.27)	27.9 (0.58)	34.4 (0.73)
Not employed and has never worked	11.8 (1.29)	2.8 (0.50)	2.3 (0.52)	1.9 (0.49)	16.6 (1.25)	20.3 (1.51)

**Table A-4a. Age-adjusted percentages (with standard errors) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Family income <sup>8</sup>						
Less than \$35,000	12.2 (0.42)	7.5 (0.32)	3.0 (0.20)	2.5 (0.21)	24.8 (0.53)	32.0 (0.64)
\$35,000 or more	7.6 (0.24)	5.5 (0.21)	1.5 (0.12)	1.5 (0.12)	20.9 (0.35)	28.2 (0.44)
\$35,000–\$49,999	10.5 (0.73)	7.0 (0.55)	2.3 (0.40)	2.2 (0.33)	22.3 (0.80)	31.1 (1.07)
\$50,000–\$74,999	8.5 (0.48)	6.3 (0.47)	1.7 (0.20)	1.6 (0.25)	22.8 (0.71)	29.8 (0.81)
\$75,000–\$99,999	8.6 (0.64)	5.6 (0.51)	1.3 (0.25)	1.5 (0.32)	19.6 (0.81)	28.5 (1.01)
\$100,000 or more	5.6 (0.35)	4.5 (0.35)	1.2 (0.19)	1.2 (0.17)	20.0 (0.57)	26.3 (0.71)
Poverty status <sup>9</sup>						
Poor	13.3 (0.74)	7.7 (0.52)	3.3 (0.36)	3.1 (0.33)	26.5 (0.85)	31.7 (0.97)
Near poor	12.7 (0.59)	7.0 (0.44)	2.9 (0.30)	2.1 (0.26)	22.3 (0.69)	30.8 (0.85)
Not poor	7.4 (0.21)	5.4 (0.20)	1.5 (0.10)	1.5 (0.11)	21.0 (0.32)	27.9 (0.41)
Health insurance coverage <sup>10</sup>						
Under 65:						
Private	5.2 (0.21)	4.3 (0.21)	0.7 (0.07)	1.2 (0.12)	14.0 (0.32)	23.0 (0.43)
Medicaid	11.3 (0.72)	7.6 (0.61)	3.2 (0.41)	3.5 (0.43)	22.4 (0.87)	32.0 (1.07)
Other coverage	11.5 (1.02)	6.9 (0.77)	1.9 (0.45)	3.1 (0.55)	28.2 (1.68)	32.4 (1.75)
Uninsured	6.9 (0.68)	5.6 (0.53)	1.2 (0.25)	1.7 (0.30)	11.1 (0.76)	21.9 (1.08)
65 and over:						
Private	17.8 (0.82)	10.3 (0.64)	5.7 (0.50)	1.4 (0.26)	53.7 (1.12)	50.1 (1.14)
Medicare and Medicaid	30.9 (2.55)	12.0 (1.72)	11.2 (1.51)	3.9 (0.92)	61.8 (2.68)	53.4 (2.85)
Medicare Advantage	20.1 (1.20)	9.2 (0.81)	5.4 (0.70)	1.9 (0.34)	51.1 (1.33)	46.2 (1.40)
Medicare only	17.7 (1.37)	9.3 (1.02)	3.9 (0.78)	2.0 (0.45)	43.7 (1.81)	42.9 (1.69)
Other coverage	26.1 (2.51)	10.8 (1.52)	6.2 (1.39)	3.3 (0.90)	54.4 (2.71)	46.4 (2.71)
Uninsured	*	*	*	*	*	*
Marital status						
Married	8.5 (0.28)	5.8 (0.26)	1.5 (0.12)	1.5 (0.13)	21.5 (0.39)	28.2 (0.51)
Widowed	13.4 (2.35)	10.3 (2.48)	1.7 (0.49)	1.6 (0.33)	32.5 (4.00)	35.3 (4.10)
Divorced or separated	11.2 (0.65)	8.1 (0.61)	3.2 (0.36)	3.0 (0.45)	26.5 (0.91)	33.7 (1.01)
Never married	9.2 (0.59)	5.1 (0.47)	2.9 (0.40)	1.9 (0.25)	19.1 (0.70)	25.0 (0.82)
Living with a partner	8.3 (0.98)	6.6 (0.87)	3.4 (0.74)	1.9 (0.44)	22.3 (1.42)	31.9 (1.54)
Place of residence <sup>11</sup>						
Large MSA	8.0 (0.27)	5.0 (0.22)	1.7 (0.13)	1.6 (0.13)	19.8 (0.38)	26.0 (0.47)
Small MSA	9.1 (0.32)	6.9 (0.33)	2.1 (0.15)	1.8 (0.17)	23.3 (0.48)	31.3 (0.69)
Not in MSA	11.4 (0.58)	7.6 (0.43)	2.1 (0.23)	2.1 (0.26)	25.8 (0.88)	32.6 (1.06)
Region						
Northeast	7.3 (0.40)	4.5 (0.37)	1.4 (0.21)	1.4 (0.21)	21.3 (0.63)	27.2 (0.85)
Midwest	8.8 (0.41)	6.7 (0.34)	1.9 (0.19)	1.3 (0.16)	24.2 (0.58)	31.5 (0.68)
South	9.4 (0.33)	6.2 (0.30)	2.0 (0.16)	1.8 (0.16)	21.1 (0.46)	27.1 (0.58)
West	8.9 (0.44)	5.8 (0.35)	2.0 (0.17)	2.2 (0.24)	20.0 (0.55)	28.4 (0.81)

**Table A-4a. Age-adjusted percentages (with standard errors) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Hispanic or Latino origin <sup>4</sup> , race, and sex						
Hispanic or Latino, male	15.2 (1.16)	3.7 (0.56)	2.8 (0.56)	2.1 (0.41)	11.6 (0.92)	17.7 (1.22)
Hispanic or Latina, female	11.7 (1.00)	4.9 (0.59)	2.6 (0.43)	2.9 (0.49)	21.0 (1.07)	24.6 (1.18)
Not Hispanic or Latino:						
White, single race, male	9.0 (0.33)	5.7 (0.31)	1.7 (0.14)	1.8 (0.16)	20.7 (0.45)	29.1 (0.60)
White, single race, female	6.1 (0.27)	7.2 (0.29)	1.8 (0.15)	1.5 (0.15)	26.0 (0.48)	33.3 (0.57)
Black or African American, single race, male	10.6 (1.01)	4.8 (0.79)	2.9 (0.55)	1.1 (0.30)	16.9 (1.09)	23.8 (1.46)
Black or African American, single race, female	12.1 (0.83)	6.1 (0.73)	2.1 (0.37)	1.3 (0.33)	25.8 (1.09)	27.4 (1.30)

\* Estimate is considered unreliable, as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr02/sr02_175.pdf)), and is not shown.

<sup>1</sup>In separate questions, respondents were asked if they had ever been told by a doctor or other health professional that they had an ulcer (including a stomach, duodenal, or peptic ulcer) or diabetes (or sugar diabetes; female respondents were instructed to exclude pregnancy-related diabetes). Responses from persons who said they had "borderline" diabetes were treated as unknown with respect to diabetes. The weighted percentage of unknown with respect to diabetes status among adults aged 18 and over was 2.9%.

Respondents were also asked in separate questions if they had been told in the last 12 months by a doctor or other health professional that they had: weak or failing kidneys (excluding kidney stones, bladder infections, or incontinence) or any kind of liver condition.

Lastly, respondents were asked if they had ever been told by a doctor or other health professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. Those who answered yes were classified as having an arthritis diagnosis. Respondents were also asked: "During the past 30 days, have you had pain, aching or stiffness in or around a joint?" (excluding back and neck) and, if yes, "Did your joint symptoms first begin more than 3 months ago?" Respondents with symptoms that began more than 3 months ago were classified in this table as having chronic joint symptoms.

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: Blackwell DL, Villarroel MA. Tables of Summary Health Statistics for U.S. Adults: 2017 National Health Interview Survey. National Center for Health Statistics. 2018. Available from: <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2017.

**Table A-4b. Frequencies (in thousands) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	All adults aged 18 and over	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Total	246,657	23,048	15,257	5,117	4,497	58,515	74,248
Sex							
Male	118,990	12,242	6,457	2,474	2,261	23,499	32,220
Female	127,667	10,807	8,800	2,642	2,236	35,015	42,028
Age (years)							
18–44	113,636	3,014	4,296	654	1,247	7,924	19,122
45–64	83,494	10,598	6,041	1,697	2,258	25,244	31,681
65–74	29,454	5,619	2,749	1,395	704	14,236	13,602
75 and over	20,073	3,817	2,171	1,371	288	11,111	9,842
Race							
One race <sup>2</sup>	241,760	22,615	14,885	5,050	4,363	57,451	72,609
White	192,033	17,455	12,421	4,125	3,553	48,222	60,910
Black or African American	30,560	3,341	1,680	682	406	6,634	7,999
American Indian or Alaska Native	2,944	424	97	73	122	622	596
Asian	15,675	1,329	663	144	273	1,917	2,911
Native Hawaiian or Other Pacific Islander	548	*	*	*	*	*	*
Two or more races <sup>3</sup>	4,897	434	373	66	134	1,064	1,639
Black or African American, white	1,183	*	*	*	*	*	247
American Indian or Alaska Native, white	1,863	255	242	44	*	656	755
Hispanic or Latino origin <sup>4</sup> and race							
Hispanic or Latino	39,416	4,087	1,586	846	912	5,314	7,725
Mexican or Mexican American	23,657	2,715	909	487	537	2,918	4,557
Not Hispanic or Latino	207,242	18,961	13,671	4,270	3,585	53,201	66,523
White, single race	157,443	13,766	11,053	3,353	2,767	43,650	54,212
Black or African American, single race	29,127	3,233	1,598	658	366	6,380	7,596
Education <sup>5</sup>							
Less than a high school diploma	24,473	4,413	2,276	1,009	791	7,520	8,817
High school diploma or GED <sup>6</sup>	51,376	6,259	3,517	1,467	1,026	15,342	18,317
Some college	61,418	6,828	4,931	1,496	1,422	17,918	22,014
Bachelor's degree or higher	78,981	5,140	4,059	992	1,046	16,845	21,502
Current employment status <sup>7</sup>							
Employed	154,311	8,725	7,422	1,027	1,955	24,354	37,809
Full-time	126,572	7,115	5,847	769	1,656	19,258	30,628
Part-time	25,582	1,492	1,520	241	284	4,506	6,579
Not employed but has worked previously	79,750	13,106	7,515	3,811	2,362	32,276	34,086
Not employed and has never worked	12,466	1,217	321	271	180	1,848	2,328

**Table A-4b. Frequencies (in thousands) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	All adults aged 18 and over	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Family income <sup>8</sup>							
Less than \$35,000	62,681	8,137	4,967	2,206	1,582	17,517	21,255
\$35,000 or more	158,267	12,269	8,863	2,333	2,505	34,573	46,067
\$35,000–\$49,999	24,774	2,740	1,791	611	549	5,994	8,061
\$50,000–\$74,999	38,018	3,316	2,496	677	635	9,234	11,781
\$75,000–\$99,999	28,310	2,467	1,584	339	441	5,744	8,310
\$100,000 or more	67,166	3,746	2,993	705	880	13,601	17,915
Poverty status <sup>9</sup>							
Poor	27,569	3,278	2,054	829	792	6,747	8,347
Near poor	39,410	5,063	2,847	1,259	809	9,488	12,497
Not poor	167,503	13,496	9,622	2,675	2,677	39,284	50,142
Health insurance coverage <sup>10</sup>							
Under 65:							
Private	136,430	7,844	6,138	1,019	1,819	21,520	33,511
Medicaid	25,831	2,756	1,941	803	896	5,668	8,179
Other coverage	9,334	1,453	903	248	394	3,408	3,824
Uninsured	24,357	1,518	1,327	281	387	2,522	5,132
65 and over:							
Private	20,155	3,397	2,021	1,096	274	10,666	9,961
Medicare and Medicaid	3,643	1,061	442	399	143	2,233	1,946
Medicare Advantage	13,349	2,604	1,227	711	271	6,780	6,167
Medicare only	8,457	1,419	772	325	176	3,665	3,598
Other coverage	3,578	879	394	222	129	1,913	1,672
Uninsured	261	*	*	*	*	*	*
Marital status							
Married	129,268	12,679	8,094	2,206	2,168	32,977	40,653
Widowed	14,492	2,648	1,592	678	361	7,493	7,005
Divorced or separated	27,735	4,096	2,454	1,145	906	9,525	11,092
Never married	55,574	2,487	2,057	717	757	5,440	10,022
Living with a partner	19,212	1,105	1,051	369	301	2,973	5,417
Place of residence <sup>11</sup>							
Large MSA	142,082	11,721	7,272	2,592	2,344	29,878	38,498
Small MSA	73,127	7,277	5,354	1,728	1,410	19,186	24,498
Not in MSA	31,448	4,050	2,630	796	743	9,451	11,251
Region							
Northeast	45,169	3,710	2,155	721	661	11,128	13,458
Midwest	53,793	5,125	3,809	1,138	742	14,315	17,880
South	89,318	8,949	5,820	1,964	1,753	20,651	25,751
West	58,377	5,264	3,474	1,293	1,341	12,421	17,159

**Table A-4b. Frequencies (in thousands) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	All adults aged 18 and over	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Hispanic or Latino origin <sup>4</sup> , race, and sex							
Hispanic or Latino, male	19,584	2,145	667	409	379	1,699	3,160
Hispanic or Latina, female	19,832	1,942	920	437	533	3,615	4,564
Not Hispanic or Latino:							
White, single race, male	76,561	7,911	4,768	1,582	1,478	18,446	24,168
White, single race, female	80,881	5,855	6,285	1,771	1,289	25,205	30,043
Black or African American, single race, male	13,175	1,321	610	329	150	2,168	3,102
Black or African American, single race, female	15,952	1,911	987	330	217	4,213	4,494

\* Corresponding crude percentage for the frequency is considered unreliable, as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf)), and is not shown.

<sup>1</sup>In separate questions, respondents were asked if they had ever been told by a doctor or other health professional that they had an ulcer (including a stomach, duodenal, or peptic ulcer) or diabetes (or sugar diabetes; female respondents were instructed to exclude pregnancy-related diabetes). Responses from persons who said they had "borderline" diabetes were treated as unknown with respect to diabetes. The weighted percentage of unknown with respect to diabetes status among adults aged 18 and over was 2.9%. Respondents were also asked in separate questions if they had been told in the last 12 months by a doctor or other health professional that they had: weak or failing kidneys (excluding kidney stones, bladder infections, or incontinence) or any kind of liver condition.

Lastly, respondents were asked if they had ever been told by a doctor or other health professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. Those who answered yes were classified as having an arthritis diagnosis. Respondents were also asked: "During the past 30 days, have you had pain, aching or stiffness in or around a joint?" (excluding back and neck) and, if yes, "Did your joint symptoms first begin more than 3 months ago?" Respondents with symptoms that began more than 3 months ago were classified in this table as having chronic joint symptoms.

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: Blackwell DL, Villarreal MA. Tables of Summary Health Statistics for U.S. Adults: 2017 National Health Interview Survey. National Center for Health Statistics. 2018. Available from: <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2017.

**Table A-4c. Crude percentages (with standard errors) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Total	9.6 (0.22)	6.2 (0.17)	2.1 (0.10)	1.8 (0.10)	23.8 (0.32)	30.1 (0.39)
Sex						
Male	10.6 (0.33)	5.4 (0.24)	2.1 (0.15)	1.9 (0.14)	19.8 (0.42)	27.1 (0.52)
Female	8.7 (0.29)	6.9 (0.24)	2.1 (0.13)	1.8 (0.14)	27.5 (0.47)	33.0 (0.50)
Age (years)						
18–44	2.7 (0.18)	3.8 (0.21)	0.6 (0.08)	1.1 (0.13)	7.0 (0.27)	16.8 (0.45)
45–64	13.2 (0.46)	7.2 (0.33)	2.0 (0.18)	2.7 (0.21)	30.3 (0.61)	38.0 (0.65)
65–74	20.1 (0.77)	9.4 (0.51)	4.7 (0.39)	2.4 (0.28)	48.4 (0.90)	46.2 (0.88)
75 and over	19.8 (0.98)	10.8 (0.70)	6.8 (0.62)	1.4 (0.24)	55.4 (1.10)	49.2 (1.18)
Race						
One race <sup>2</sup>	9.6 (0.22)	6.2 (0.17)	2.1 (0.10)	1.8 (0.10)	23.8 (0.33)	30.1 (0.39)
White	9.3 (0.24)	6.5 (0.20)	2.1 (0.11)	1.9 (0.11)	25.1 (0.35)	31.8 (0.41)
Black or African American	11.3 (0.65)	5.5 (0.51)	2.2 (0.29)	1.3 (0.24)	21.7 (0.94)	26.2 (1.09)
American Indian or Alaska Native	14.9 (3.10)	3.3 (0.94)	2.5 (0.76)	4.1 (1.12)	21.1 (3.30)	20.2 (2.55)
Asian	8.9 (0.92)	4.2 (0.67)	0.9 (0.29)	1.7 (0.50)	12.2 (1.18)	18.6 (1.50)
Native Hawaiian or Other Pacific Islander	*	*	*	*	*	*
Two or more races <sup>3</sup>	9.2 (1.47)	7.6 (1.22)	1.4 (0.44)	2.7 (0.77)	21.7 (2.07)	33.6 (2.64)
Black or African American, white	*	*	*	*	*	21.1 (4.56)
American Indian or Alaska Native, white	14.1 (2.75)	13.0 (2.45)	2.3 (0.89)	*	35.2 (3.96)	40.5 (3.82)
Hispanic or Latino origin <sup>4</sup> and race						
Hispanic or Latino	10.8 (0.68)	4.0 (0.39)	2.1 (0.30)	2.3 (0.31)	13.5 (0.70)	19.6 (0.89)
Mexican or Mexican American	11.9 (0.87)	3.8 (0.49)	2.1 (0.34)	2.3 (0.41)	12.4 (0.87)	19.3 (1.09)
Not Hispanic or Latino	9.4 (0.23)	6.6 (0.19)	2.1 (0.11)	1.7 (0.10)	25.7 (0.36)	32.1 (0.41)
White, single race	9.0 (0.24)	7.0 (0.22)	2.1 (0.12)	1.8 (0.12)	27.8 (0.40)	34.5 (0.45)
Black or African American, single race	11.4 (0.67)	5.5 (0.53)	2.3 (0.31)	1.3 (0.23)	21.9 (0.98)	26.1 (1.11)
Education <sup>5</sup>						
Less than a high school diploma	18.8 (0.95)	9.3 (0.64)	4.1 (0.42)	3.2 (0.43)	30.8 (1.08)	36.1 (1.18)
High school diploma or GED <sup>6</sup>	12.7 (0.51)	6.9 (0.40)	2.9 (0.26)	2.0 (0.21)	29.9 (0.71)	35.7 (0.84)
Some college	11.5 (0.47)	8.0 (0.38)	2.4 (0.21)	2.3 (0.20)	29.2 (0.64)	35.9 (0.72)
Bachelor's degree or higher	6.7 (0.32)	5.1 (0.30)	1.3 (0.14)	1.3 (0.16)	21.4 (0.54)	27.3 (0.61)
Current employment status <sup>7</sup>						
Employed	5.8 (0.22)	4.8 (0.21)	0.7 (0.07)	1.3 (0.11)	15.8 (0.35)	24.5 (0.45)
Full-time	5.8 (0.25)	4.6 (0.22)	0.6 (0.07)	1.3 (0.13)	15.2 (0.39)	24.2 (0.49)
Part-time	6.0 (0.50)	5.9 (0.56)	0.9 (0.19)	1.1 (0.22)	17.6 (0.88)	25.8 (1.06)
Not employed but has worked previously	17.1 (0.49)	9.4 (0.34)	4.8 (0.26)	3.0 (0.20)	40.5 (0.63)	42.8 (0.64)
Not employed and has never worked	10.0 (1.04)	2.6 (0.42)	2.2 (0.47)	1.4 (0.36)	14.9 (1.18)	18.7 (1.38)

**Table A-4c. Crude percentages (with standard errors) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Family income <sup>8</sup>						
Less than \$35,000	13.4 (0.47)	7.9 (0.34)	3.5 (0.22)	2.5 (0.20)	28.0 (0.63)	34.0 (0.68)
\$35,000 or more	8.0 (0.26)	5.6 (0.21)	1.5 (0.11)	1.6 (0.12)	21.9 (0.40)	29.1 (0.47)
\$35,000–\$49,999	11.4 (0.80)	7.2 (0.55)	2.5 (0.43)	2.2 (0.33)	24.2 (0.90)	32.6 (1.12)
\$50,000–\$74,999	9.0 (0.51)	6.6 (0.48)	1.8 (0.22)	1.7 (0.26)	24.3 (0.79)	31.0 (0.86)
\$75,000–\$99,999	9.0 (0.66)	5.6 (0.48)	1.2 (0.22)	1.6 (0.32)	20.3 (0.88)	29.4 (1.05)
\$100,000 or more	5.7 (0.36)	4.5 (0.33)	1.1 (0.15)	1.3 (0.18)	20.3 (0.64)	26.7 (0.72)
Poverty status <sup>9</sup>						
Poor	12.2 (0.75)	7.5 (0.52)	3.0 (0.32)	2.9 (0.32)	24.5 (0.94)	30.3 (1.02)
Near poor	13.2 (0.62)	7.2 (0.44)	3.2 (0.32)	2.1 (0.26)	24.1 (0.75)	31.8 (0.86)
Not poor	8.3 (0.24)	5.7 (0.21)	1.6 (0.11)	1.6 (0.11)	23.5 (0.39)	30.0 (0.44)
Health insurance coverage <sup>10</sup>						
Under 65:						
Private	5.9 (0.24)	4.5 (0.22)	0.7 (0.07)	1.3 (0.12)	15.8 (0.38)	24.6 (0.46)
Medicaid	11.0 (0.77)	7.5 (0.62)	3.1 (0.41)	3.5 (0.43)	22.0 (0.93)	31.7 (1.14)
Other coverage	16.1 (1.34)	9.7 (1.03)	2.7 (0.55)	4.2 (0.71)	36.6 (1.83)	41.1 (1.93)
Uninsured	6.3 (0.65)	5.5 (0.53)	1.2 (0.25)	1.6 (0.29)	10.4 (0.74)	21.1 (1.06)
65 and over:						
Private	17.7 (0.80)	10.0 (0.61)	5.4 (0.47)	1.4 (0.26)	53.0 (1.12)	49.5 (1.15)
Medicare and Medicaid	30.8 (2.56)	12.2 (1.78)	11.1 (1.50)	3.9 (0.92)	61.6 (2.68)	53.6 (2.88)
Medicare Advantage	20.3 (1.22)	9.2 (0.80)	5.3 (0.69)	2.0 (0.36)	50.8 (1.32)	46.2 (1.37)
Medicare only	17.5 (1.32)	9.1 (0.96)	3.8 (0.73)	2.1 (0.44)	43.5 (1.78)	42.7 (1.68)
Other coverage	26.2 (2.41)	11.0 (1.52)	6.2 (1.34)	3.6 (0.96)	53.5 (2.69)	46.7 (2.69)
Uninsured	*	*	*	*	*	*
Marital status						
Married	10.1 (0.32)	6.3 (0.26)	1.7 (0.13)	1.7 (0.13)	25.5 (0.46)	31.5 (0.54)
Widowed	19.1 (1.06)	11.0 (0.74)	4.7 (0.56)	2.5 (0.36)	51.9 (1.29)	48.4 (1.18)
Divorced or separated	15.3 (0.70)	8.9 (0.53)	4.1 (0.40)	3.3 (0.34)	34.4 (0.90)	40.0 (0.95)
Never married	4.6 (0.31)	3.7 (0.30)	1.3 (0.15)	1.4 (0.19)	9.8 (0.40)	18.1 (0.64)
Living with a partner	5.8 (0.65)	5.5 (0.62)	1.9 (0.39)	1.6 (0.33)	15.5 (0.97)	28.2 (1.33)
Place of residence <sup>11</sup>						
Large MSA	8.5 (0.30)	5.1 (0.23)	1.8 (0.14)	1.7 (0.13)	21.1 (0.43)	27.1 (0.51)
Small MSA	10.2 (0.34)	7.3 (0.34)	2.4 (0.17)	1.9 (0.18)	26.3 (0.60)	33.5 (0.74)
Not in MSA	13.2 (0.64)	8.4 (0.45)	2.5 (0.26)	2.4 (0.28)	30.1 (1.00)	35.8 (1.15)
Region						
Northeast	8.5 (0.49)	4.8 (0.40)	1.6 (0.24)	1.5 (0.21)	24.7 (0.79)	29.8 (0.94)
Midwest	9.7 (0.44)	7.1 (0.36)	2.1 (0.20)	1.4 (0.16)	26.6 (0.69)	33.3 (0.74)
South	10.3 (0.37)	6.5 (0.30)	2.2 (0.18)	2.0 (0.17)	23.1 (0.55)	28.9 (0.63)
West	9.4 (0.48)	6.0 (0.35)	2.2 (0.19)	2.3 (0.25)	21.3 (0.61)	29.5 (0.89)



**Table A-4c. Crude percentages (with standard errors) of selected diseases and conditions among adults aged 18 and over, by selected characteristics: United States, 2017**

Selected characteristic	Diabetes <sup>1</sup>	Ulcers <sup>1</sup>	Kidney disease <sup>1</sup>	Liver disease <sup>1</sup>	Arthritis diagnosis <sup>1</sup>	Chronic joint symptoms <sup>1</sup>
Hispanic or Latino origin <sup>4</sup> , race, and sex						
Hispanic or Latino, male	11.4 (1.06)	3.4 (0.54)	2.1 (0.44)	1.9 (0.41)	8.7 (0.74)	16.1 (1.20)
Hispanic or Latina, female	10.1 (0.93)	4.6 (0.58)	2.2 (0.37)	2.7 (0.46)	18.2 (1.14)	23.0 (1.18)
Not Hispanic or Latino:						
White, single race, male	10.7 (0.39)	6.2 (0.33)	2.1 (0.17)	1.9 (0.17)	24.1 (0.53)	31.6 (0.62)
White, single race, female	7.4 (0.30)	7.8 (0.30)	2.2 (0.16)	1.6 (0.16)	31.2 (0.57)	37.2 (0.60)
Black or African American, single race, male	10.3 (1.07)	4.6 (0.75)	2.5 (0.47)	1.1 (0.30)	16.5 (1.25)	23.5 (1.56)
Black or African American, single race, female	12.4 (0.89)	6.2 (0.72)	2.1 (0.36)	1.4 (0.34)	26.5 (1.34)	28.2 (1.44)

\* Estimate is considered unreliable, as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf)), and is not shown.

<sup>1</sup>In separate questions, respondents were asked if they had ever been told by a doctor or other health professional that they had an ulcer (including a stomach, duodenal, or peptic ulcer) or diabetes (or sugar diabetes; female respondents were instructed to exclude pregnancy-related diabetes). Responses from persons who said they had "borderline" diabetes were treated as unknown with respect to diabetes. The weighted percentage of unknown with respect to diabetes status among adults aged 18 and over was 2.9%.

Respondents were also asked in separate questions if they had been told in the last 12 months by a doctor or other health professional that they had: weak or failing kidneys (excluding kidney stones, bladder infections, or incontinence) or any kind of liver condition.

Lastly, respondents were asked if they had ever been told by a doctor or other health professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. Those who answered yes were classified as having an arthritis diagnosis. Respondents were also asked: "During the past 30 days, have you had pain, aching or stiffness in or around a joint?" (excluding back and neck) and, if yes, "Did your joint symptoms first begin more than 3 months ago?" Respondents with symptoms that began more than 3 months ago were classified in this table as having chronic joint symptoms.

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 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. 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: Blackwell DL, Villarroel MA. Tables of Summary Health Statistics for U.S. Adults: 2017 National Health Interview Survey. National Center for Health Statistics. 2018. Available from: <http://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2017.