



Early Release of Selected Estimates Based on Data From the January–June 2017 National Health Interview Survey

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About This Early Release

In this release, the National Center for Health Statistics (NCHS) updates estimates for 15 selected health measures based on data from the January–June 2017 National Health Interview Survey (NHIS) and presents estimates from 1997 through 2016 for comparison. The 15 Early Release measures are being published prior to final data editing and final weighting to provide access to the most recent information from NHIS. The estimates will be updated as each new quarter of NHIS data becomes available.

Two additional periodical reports are published through the Early Release Program. *Health Insurance Coverage: Early Release of Estimates From the National Health Interview Survey* (1) is published quarterly and provides additional estimates of health insurance coverage. *Wireless Substitution: Early Release of Estimates From the National Health Interview Survey* (2) is published twice a year and provides selected estimates of telephone coverage. Other Early Release reports and tabulations on special topics are released as needed. In addition to these reports, preliminary microdata files containing selected NHIS variables are produced as part of the Early Release Program. For each data collection year (January through December), these variables are made available in four files approximately 5 to 6 months following the completion of data collection for the quarter. NHIS data users can analyze these files through the NCHS Research Data Center without having to wait for the final annual NHIS microdata files to be released about June following the end of the data collection year.

The 15 measures included in the present report are lack of health insurance coverage and type of coverage, having a usual place to go for medical care, obtaining needed medical care, receipt of influenza vaccination, receipt of pneumococcal vaccination, obesity, leisure-time physical activity, current cigarette smoking, alcohol consumption, human immunodeficiency virus (HIV) testing, general health status, personal care needs, serious psychological distress, diagnosed diabetes, and asthma episodes and current asthma. Three of these measures (lack of health insurance coverage, leisure-time physical activity, and current cigarette smoking) are directly related to Healthy People 2020 (3) Leading Health Indicators.

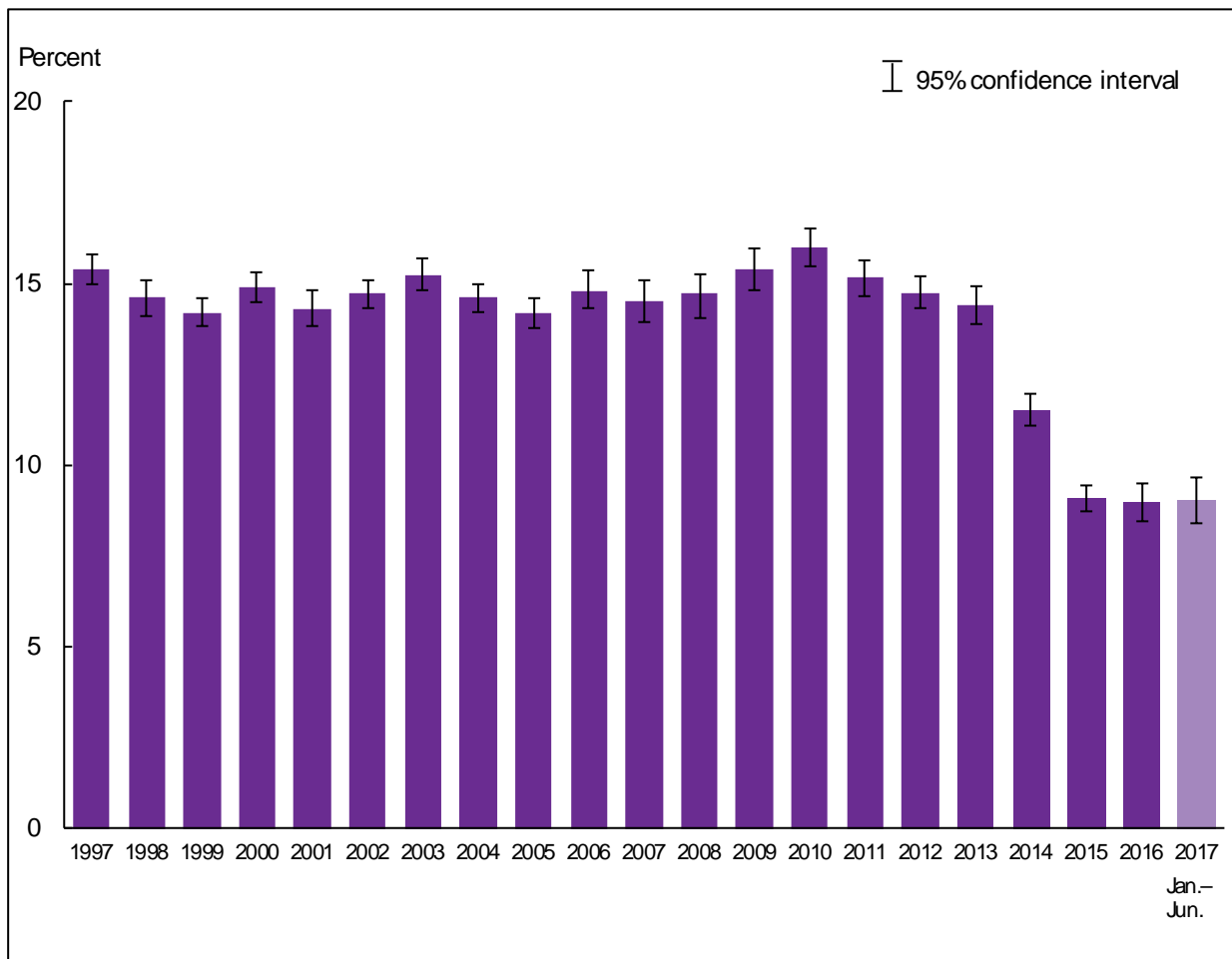
For each selected health measure, a figure is presented showing the trend over time from 1997 through June 2017 for the total population, followed by figures and tables showing estimates by age group and sex, based on data from the January–June 2017 NHIS. Estimates (which may be adjusted by age, sex, or both, where appropriate) also are provided for three race and ethnicity groups—Hispanic; non-Hispanic white, single race; and non-Hispanic black, single race—using data from the January–June 2017 NHIS. Some measures may include additional tables or figures. Key findings are highlighted by bullets and data tables containing the values displayed in the figures, and additional age-adjusted estimates are included at the end of each section.

The NHIS questions used to define the selected health measures are provided in the [Appendix](#). The [Technical Notes](#) at the end of the report provide details on data source, transition to weights based on the 2000 and 2010 U.S. censuses, implementation of a new sample design in 2016, estimation procedures, significance testing, adjustment for age and sex, race and ethnicity categories, health insurance, influenza vaccination, alcohol consumption, HIV testing, and serious psychological distress.

Estimates based on January–June 2017 data were calibrated to 2010 census-based population estimates for sex, age, and race and ethnicity of the U.S. civilian noninstitutionalized population. More information on weighting can be found in the [Technical Notes](#).

Lack of health insurance coverage and type of coverage

Figure 1.1. Percentage of persons of all ages without health insurance coverage at the time of interview: United States, 1997–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. A person was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children’s Health Insurance Program, state–sponsored or other government–sponsored health plan, or military plan at the time of interview. A person was also defined as uninsured if he or she 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. The data on health insurance status were edited using an automated system based on logic checks. For comparability, the estimates for all years were created using these same procedures. The resulting estimates of persons without health insurance coverage are generally 0.1–0.3 percentage point lower than those based on the editing procedures used for the final data files. The analyses exclude persons with unknown health insurance status (about 1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

- For January–June 2017, the percentage of persons uninsured at the time of interview was 9.0% (95% confidence interval = 8.38%–9.65%), which was the same as the 2016 estimate of 9.0%.
- The percentage of persons uninsured at the time of interview decreased, from 16.0% in 2010 to 9.0% in January–June 2017.

Table 1.1a. Number of persons without health insurance coverage at the time of interview, by age group: United States, 1997– June 2017

Year	All ages	Under 65	18–64	Under 18 years
	Number (millions)			
1997	41.0	40.7	30.8	9.9
1998	39.3	39.0	30.0	9.1
1999	38.7	38.3	29.8	8.5
2000	41.3	40.8	32.0	8.9
2001	40.2	39.8	31.9	7.9
2002	41.5	41.1	33.5	7.6
2003	43.6	43.2	35.9	7.3
2004 (Method 1 ¹)	42.5	42.0	35.0	7.0
2004 (Method 2 ¹)	42.1	41.7	34.9	6.8
2005	41.2	41.0	34.4	6.5
2006	43.6	43.3	36.5	6.8
2007	43.1	42.8	36.3	6.5
2008	43.8	43.6	37.1	6.6
2009	46.3	46.0	40.0	6.1
2010	48.6	48.2	42.5	5.8
2011	46.3	45.9	40.7	5.2
2012	45.5	45.2	40.3	4.9
2013	44.8	44.3	39.6	4.8
2014	36.0	35.7	31.7	4.0
2015	28.6	28.4	25.1	3.3
2016	28.6	28.2	24.5	3.8
January–June 2017	28.8	28.3	24.7	3.6

See footnotes at end of table 1.1b.

Table 1.1b. Percentage of persons without health insurance coverage at the time of the interview, by age group: United States, 1997– June 2017

Year	All ages	Under 65	Under 65	18–64	Under 18 years
	Percent (95% confidence interval)	Crude percent (95% confidence interval)	Age-adjusted percent (95% confidence interval)	Percent (95% confidence interval)	Percent (95% confidence interval)
1997	15.4 (15.0–15.8)	17.4 (16.9–17.9)	17.2 (16.8–17.7)	18.9 (18.4–19.4)	13.9 (13.2–14.6)
1998	14.6 (14.1–15.1)	16.5 (16.0–17.0)	16.4 (15.9–16.9)	18.2 (17.7–18.7)	12.7 (12.0–13.4)
1999	14.2 (13.8–14.6)	16.0 (15.5–16.5)	16.0 (15.5–16.5)	17.8 (17.3–18.3)	11.8 (11.2–12.4)
2000	14.9 (14.5–15.3)	16.8 (16.3–17.2)	16.8 (16.3–17.3)	18.7 (18.1–19.2)	12.3 (11.7–12.9)
2001	14.3 (13.8–14.8)	16.2 (15.7–16.7)	16.2 (15.7–16.7)	18.3 (17.8–18.8)	11.0 (10.3–11.7)
2002	14.7 (14.3–15.1)	16.5 (16.0–16.9)	16.6 (16.1–17.1)	19.1 (18.6–19.6)	10.5 (9.9–11.1)
2003	15.2 (14.8–15.7)	17.2 (16.6–17.7)	17.3 (16.8–17.8)	20.1 (19.5–20.6)	10.1 (9.4–10.7)
2004 (Method 1 ¹)	14.7 (14.3–15.2)	16.6 (16.1–17.0)	16.7 (16.3–17.2)	19.4 (18.9–19.9)	9.6 (9.0–10.2)
2004 (Method 2 ¹)	14.6 (14.2–15.0)	16.4 (16.0–16.9)	16.6 (16.2–17.1)	19.3 (18.8–19.8)	9.4 (8.8–10.0)
2005	14.2 (13.75–14.58)	16.0 (15.53–16.46)	16.2 (15.72–16.65)	18.9 (18.34–19.38)	8.9 (8.34–9.49)
2006	14.8 (14.34–15.34)	16.8 (16.21–17.33)	17.0 (16.44–17.57)	19.8 (19.12–20.42)	9.3 (8.60–9.92)
2007	14.5 (13.93–15.08)	16.4 (15.76–17.05)	16.6 (15.95–17.28)	19.4 (18.68–20.09)	8.9 (8.10–9.66)
2008	14.7 (14.04–15.27)	16.7 (15.96–17.36)	16.9 (16.24–17.63)	19.7 (18.95–20.51)	8.9 (8.04–9.73)
2009	15.4 (14.79–15.96)	17.5 (16.80–18.12)	17.7 (17.08–18.42)	21.1 (20.38–21.83)	8.2 (7.39–8.97)
2010	16.0 (15.46–16.52)	18.2 (17.58–18.77)	18.5 (17.87–19.07)	22.3 (21.57–22.95)	7.8 (7.12–8.39)
2011	15.1 (14.66–15.64)	17.3 (16.69–17.82)	17.5 (16.93–18.06)	21.3 (20.58–21.92)	7.0 (6.49–7.56)
2012	14.7 (14.29–15.21)	16.9 (16.41–17.46)	17.1 (16.59–17.62)	20.9 (20.28–21.51)	6.6 (6.07–7.13)
2013	14.4 (13.89–14.90)	16.6 (15.97–17.15)	16.7 (16.10–17.29)	20.4 (19.66–21.12)	6.5 (6.01–7.02)
2014	11.5 (11.06–11.94)	13.3 (12.80–13.81)	13.4 (12.92–13.97)	16.3 (15.67–16.88)	5.5 (4.93–6.00)
2015	9.1 (8.70–9.44)	10.5 (10.11–10.96)	10.7 (10.23–11.10)	12.8 (12.29–13.36)	4.5 (4.02–4.97)
2016	9.0 (8.43–9.50)	10.4 (9.81–11.04)	10.6 (9.93–11.17)	12.4 (11.71–13.12)	5.1 (4.53–5.73)
January–June 2017	9.0 (8.38–9.65)	10.5 (9.78–11.20)	10.6 (9.88–11.33)	12.5 (11.83–13.29)	5.0 (3.99–6.07)

¹ In the third quarter of 2004, two questions were added to the National Health Interview Survey insurance section to reduce potential errors in reporting Medicare and Medicaid status. Persons aged 65 and over not reporting Medicare coverage were asked explicitly about Medicare coverage, and persons under age 65 with no reported coverage were asked explicitly about Medicaid coverage. Depending on responses to these two questions, respondents may have been reclassified. Estimates of uninsurance for 2004 are calculated both without the additional information from these new questions (Method 1) and with the responses to these new questions (Method 2). Beginning in 2005, all estimates are reported using Method 2. See [Technical Notes](#) for additional information.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. A person was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children’s Health Insurance Program, state–sponsored or other government–sponsored health plan, or military plan at the time of interview. A person was also defined as uninsured if he or she 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. The data on health insurance status were edited using an automated system based on logic checks. For comparability, the estimates for all years were created using these same procedures. The resulting estimates of persons without health insurance coverage are generally 0.1–0.3 percentage point lower than those based on the editing procedures used for the final data files. In Table 1.1a, the number of uninsured persons is calculated as the percentage of uninsured persons multiplied by the total weighted population, including persons with unknown coverage. The age-specific numbers of uninsured may not add to their respective totals due to rounding. In Table 1.1b, age-adjusted estimates for persons under age 65 for this Healthy People 2020 Leading Health Indicator are adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–44, and 45–64. The analyses exclude persons with unknown health insurance status (about 1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

- For January–June 2017, the percentage of uninsured persons at the time of interview by age group was 10.5% (28.3 million) for those under age 65, 12.5% (24.7 million) for those aged 18–64, and 5.0% (3.6 million) for those under age 18 years (Tables 1.1a and 1.1b).
- For children under age 18 years, the percentage of those uninsured at the time of interview generally decreased, from 13.9% in 1997 to 5.0% in January–June 2017. The January–June 2017 estimate was higher than, but not significantly different from, the 2015 estimate of 4.5%, and not significantly different from the 2016 estimate of 5.1% (Table 1.1b).
- After a period of general increase, the percentage of adults aged 18–64 uninsured at the time of interview decreased in recent years.

Table 1.2a. Percentage of persons under age 65 with public health plan coverage, by age group: United States, 1997– June 2017

Year	Under 65	18–64	Under 18 years
Percent (95% confidence interval)			
1997	13.6 (13.1–14.1)	10.2 (9.8–10.6)	21.4 (20.5–22.4)
1998	12.7 (12.2–13.2)	9.5 (9.1–9.9)	20.0 (19.0–20.9)
1999	12.4 (12.0–12.9)	9.0 (8.6–9.3)	20.4 (19.5–21.4)
2000	12.9 (12.4–13.4)	9.1 (8.7–9.4)	22.0 (21.0–23.0)
2001	13.6 (13.1–14.1)	9.4 (9.0–9.8)	23.6 (22.6–24.5)
2002	15.2 (14.6–15.8)	10.3 (9.9–10.7)	27.1 (26.0–28.2)
2003	16.0 (15.4–16.6)	10.9 (10.4–11.4)	28.6 (27.4–29.7)
2004 (Method 1 ¹)	16.1 (15.6–16.7)	11.1 (10.6–11.5)	28.5 (27.5–29.6)
2004 (Method 2 ¹)	16.2 (15.7–16.8)	11.1 (10.7–11.6)	28.7 (27.7–29.8)
2005	16.8 (16.26–17.38)	11.5 (11.12–11.98)	29.9 (28.80–30.99)
2006	18.1 (17.40–18.77)	12.4 (11.89–12.92)	32.3 (30.94–33.64)
2007	18.1 (17.35–18.90)	12.3 (11.72–12.95)	32.7 (31.22–34.25)
2008	19.3 (18.45–20.09)	13.4 (12.71–14.02)	34.2 (32.70–35.78)
2009	21.0 (20.22–21.76)	14.4 (13.84–15.05)	37.7 (36.23–39.19)
2010	22.0 (21.21–22.71)	15.0 (14.37–15.56)	39.8 (38.34–41.22)
2011	23.0 (22.23–23.68)	15.9 (15.34–16.47)	41.0 (39.56–42.48)
2012	23.5 (22.81–24.25)	16.4 (15.85–17.01)	42.1 (40.64–43.47)
2013	23.8 (23.06–24.45)	16.7 (16.14–17.32)	42.2 (40.81–43.56)
2014	24.5 (23.75–25.16)	17.7 (17.10–18.34)	42.2 (40.95–43.50)
2015	25.3 (24.47–26.15)	18.9 (18.23–19.65)	42.2 (40.65–43.73)
2016	26.3 (25.45–27.06)	20.0 (19.24–20.71)	43.0 (41.69–44.23)
January–June 2017	25.6 (24.65–26.59)	19.2 (18.39–20.11)	42.6 (40.71–44.49)

See footnotes at end of table 1.2b.

Table 1.2b. Percentage of persons under age 65 with private health insurance coverage, by age group: United States, 1997– June 2017

Year	Under 65	18–64	Under 18 years
Percent (95% confidence interval)			
1997	70.8 (70.1–71.5)	72.8 (72.2–73.4)	66.2 (65.1–67.3)
1998	72.0 (71.3–72.7)	73.5 (72.9–74.1)	68.5 (67.4–69.5)
1999	73.1 (72.3–73.8)	74.7 (74.1–75.4)	69.1 (68.0–70.2)
2000	71.8 (71.1–72.5)	73.8 (73.2–74.4)	67.1 (66.1–68.2)
2001	71.6 (70.9–72.3)	73.7 (73.1–74.4)	66.7 (65.6–67.8)
2002	69.8 (69.0–70.6)	72.3 (71.6–72.9)	63.9 (62.7–65.1)
2003	68.2 (67.5–69.0)	70.6 (69.9–71.3)	62.6 (61.4–63.8)
2004 (Method 1 ¹)	68.6 (67.9–69.4)	70.9 (70.2–71.6)	63.1 (61.9–64.3)
2004 (Method 2 ¹)
2005	68.4 (67.66–69.20)	70.9 (70.18–71.58)	62.4 (61.18–63.54)
2006	66.5 (65.54–67.41)	69.2 (68.33–70.02)	59.7 (58.32–61.14)
2007	66.8 (65.76–67.85)	69.6 (68.64–70.47)	59.9 (58.25–61.48)
2008	65.4 (64.21–66.49)	68.1 (67.10–69.20)	58.3 (56.61–59.91)
2009	62.9 (61.86–63.99)	65.8 (64.83–66.69)	55.7 (54.02–57.38)
2010	61.2 (60.20–62.17)	64.1 (63.19–64.98)	53.8 (52.31–55.26)
2011	61.2 (60.16–62.15)	64.2 (63.34–65.09)	53.3 (51.84–54.81)
2012	61.0 (60.04–61.87)	64.1 (63.26–64.89)	52.8 (51.40–54.25)
2013	61.0 (60.02–62.04)	64.2 (63.33–65.17)	52.6 (51.10–54.09)
2014	63.6 (62.66–64.47)	67.3 (66.47–68.15)	53.7 (52.34–55.00)
2015	65.6 (64.65–66.59)	69.7 (68.88–70.58)	54.7 (53.20–56.28)
2016	65.0 (64.06–65.92)	69.2 (68.37–69.99)	53.8 (52.44–55.25)
January–June 2017	65.4 (64.38–66.36)	69.6 (68.73–70.52)	54.0 (52.30–55.74)

... Category not applicable; see footnote 1 for more information.

¹In the third quarter of 2004, two questions were added to the National Health Interview Survey insurance section to reduce potential errors in reporting Medicare and Medicaid status. Persons aged 65 and over not reporting Medicare coverage were asked explicitly about Medicare coverage, and persons under age 65 with no reported coverage were asked explicitly about Medicaid coverage. Depending on responses to these two questions, respondents may have been reclassified. Estimates of uninsurance for 2004 are calculated both without the additional information

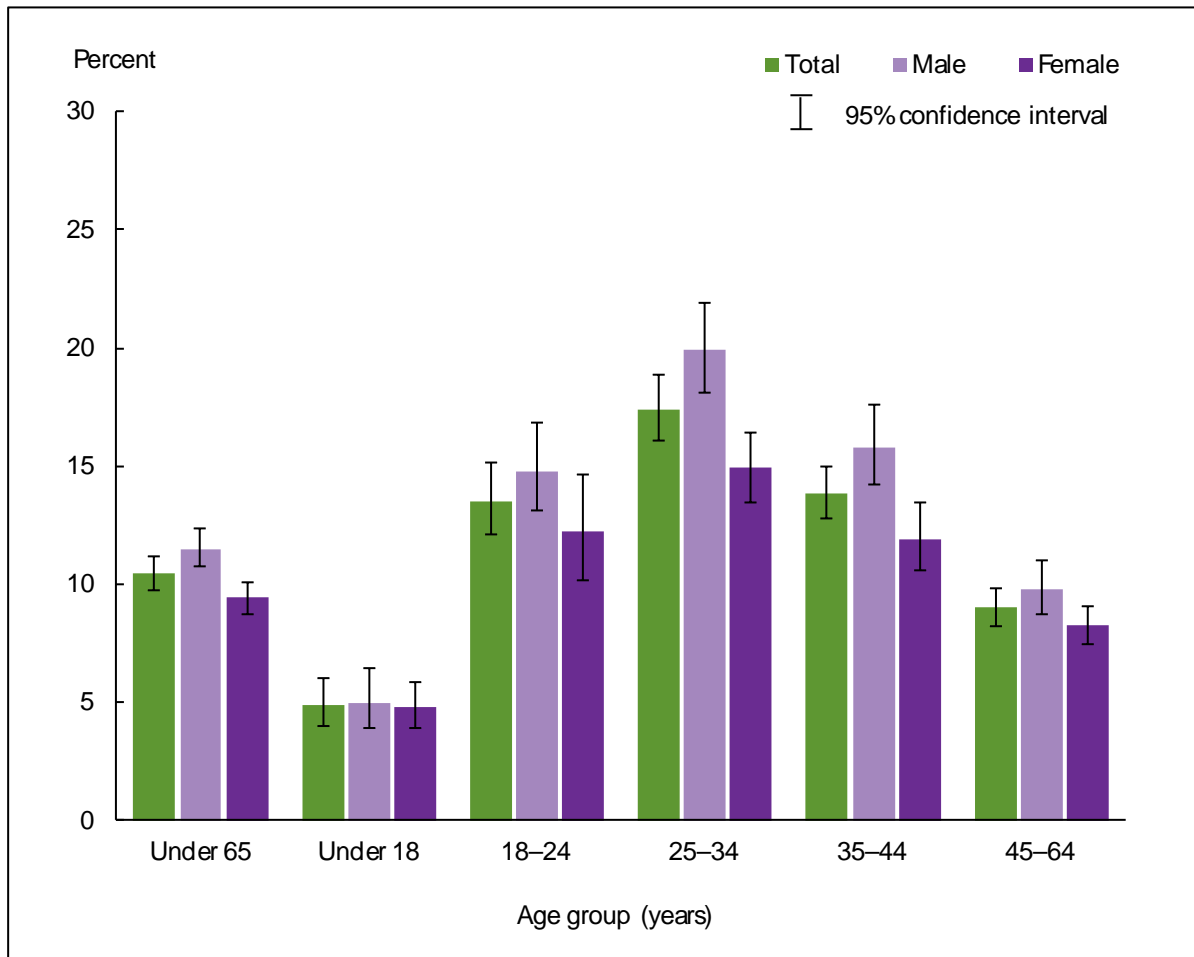
from these new questions (Method 1) and with the responses to these new questions (Method 2). In Table 1.1b, estimates of private insurance are not affected by the two additional questions. Beginning in 2005, all estimates are reported using Method 2. See [Technical Notes](#) for additional information.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. In Table 1.2a, “public health plan coverage” includes Medicare (disability), Medicaid, Children’s Health Insurance Program (CHIP), state-sponsored or other government-sponsored health plan, and military plans. In Table 1.2b, “private health insurance” includes persons who had any comprehensive private insurance plan (including health maintenance and preferred provider organizations). These plans include those obtained through an employer, purchased directly, or purchased through local or community programs. Private coverage excludes plans that pay for only one type of service such as accidents or dental care. The data on type of coverage were edited using an automated system based on logic checks. For comparability, the estimates for all years were created using these same procedures. The resulting estimates of persons having public or private coverage are within 0.1–0.3 percentage point of those based on the editing procedures used for the final data files. The analyses exclude persons with unknown health insurance status (about 1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

- For January–June 2017, 25.6% of persons under age 65 were covered by public health plans (Table 1.2a) and 65.4% were covered by private health plans (Table 1.2b).
- For children under age 18 years, the percentage with public health insurance coverage generally increased over time but has more recently leveled off. The percentage of children under age 18 years with public insurance coverage in January–June 2017 was 42.6%, which was not significantly different from the 2016 estimate of 43.0% (Table 1.2a).
- For children under age 18 years, the percentage with private health insurance coverage generally decreased, over time but has more recently leveled off. From January to June 2017, 54.0% of children under age 18 years had private health insurance coverage, which was not significantly different from the 2016 estimate of 53.8% (Table 1.2b).
- The percentage of adults aged 18–64 with public health insurance coverage generally increased. The percentage of adults with public health insurance coverage in January–June 2017 (19.2%) was lower than, but not significantly different from, the 2016 estimate of 20.0% (Table 1.2a).
- After a period of general decline, the percentage of adults aged 18–64 with private health insurance coverage increased in recent years. The percentage of adults with private insurance coverage in January–June 2017 (69.6%) was not significantly different from the 2016 estimate of 69.2% (Table 1.2b).

Figure 1.2. Percentage of persons under age 65 without health insurance coverage at the time of interview, by age group and sex: United States, January–June 2017

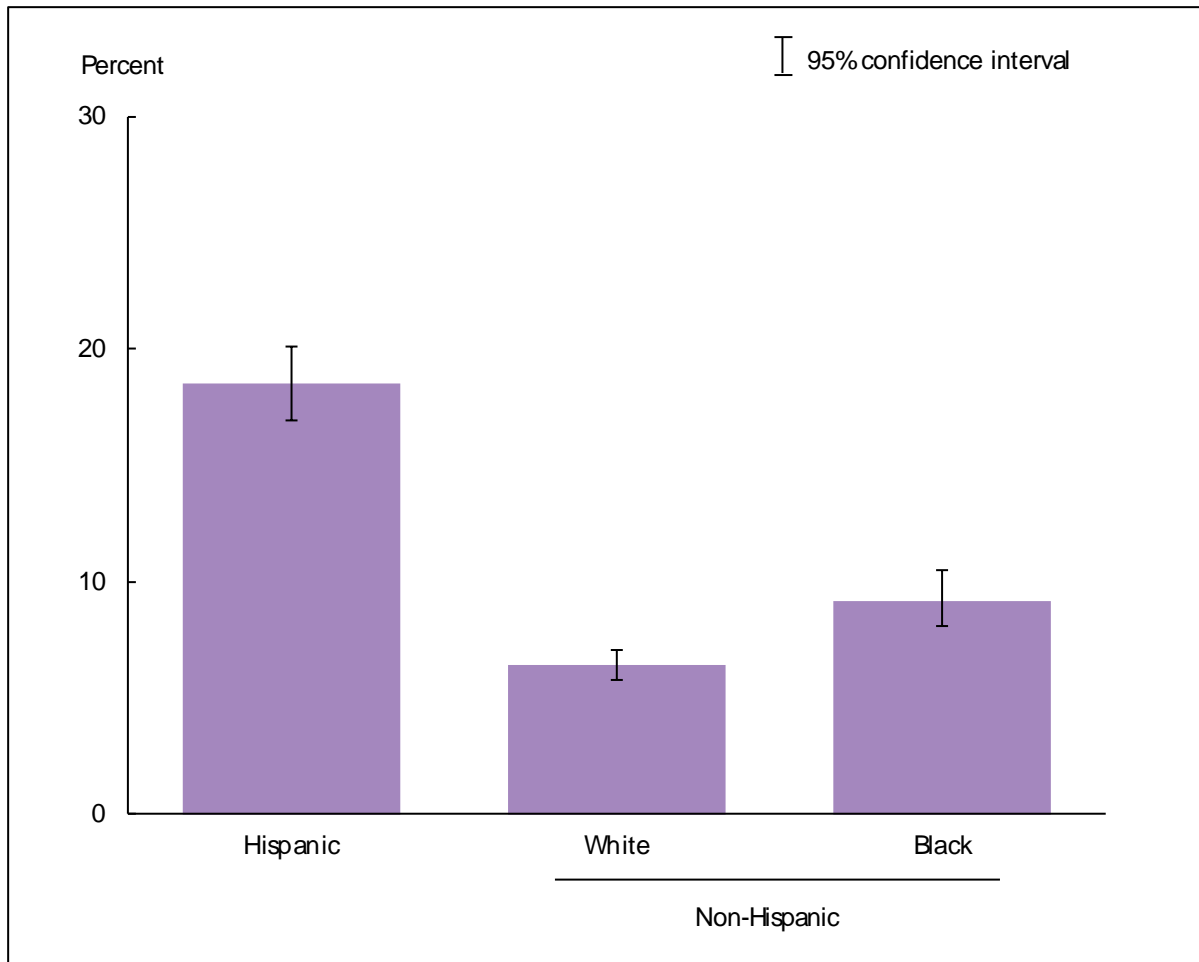


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. A person was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children’s Health Insurance Program, state–sponsored or other government–sponsored health plan, or military plan at the time of interview. A person was also defined as uninsured if he or she 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. The data on health insurance status were edited using an automated system based on logic checks. The resulting estimates of persons not having health insurance coverage are generally 0.1–0.3 percentage point lower than those based on the editing procedures used for the final data files. The analyses excluded the 1.1% of persons with unknown health insurance status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- For both sexes combined under age 65, the percentage of those uninsured at the time of interview by age group was highest among persons aged 25–34 (17.4%) and lowest among those under age 18 years (5.0%). This pattern held for males and females.
- Adults aged 45–64 were less likely than adults aged 18–24, 25–34, and 35–44 to lack health insurance coverage.
- For all persons under age 65 and for adults in age groups 25–34, 35–44, and 45–64, males were more likely than females to lack health insurance coverage at the time of interview.

Figure 1.3. Age-sex-adjusted percentage of persons of all ages without health insurance coverage at the time of interview, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. A person was defined as uninsured if he or she did not have any private health insurance, Medicare, Medicaid, Children’s Health Insurance Program, state-sponsored or other government-sponsored health plan, or military plan at the time of interview. A person was also defined as uninsured if he or she 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. The data on health insurance status were edited using an automated system based on logic checks. The resulting estimates of persons not having health insurance coverage are generally 0.1–0.3 percentage point lower than those based on the editing procedures used for the final data files. The analyses exclude the 1.0% of persons with unknown health insurance status. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- After adjustment for age and sex, the percentage of those uninsured at the time of interview by race and ethnicity was 18.5% for Hispanic persons, 6.4% for non-Hispanic white persons, and 9.2% for non-Hispanic black persons.
- Hispanic persons were the most likely to be uninsured at the time of interview, compared with non-Hispanic black persons and non-Hispanic white persons. Non-Hispanic black persons were more likely to be uninsured at the time of interview than non-Hispanic white persons.

Data tables for Figures 1.1–1.3:**Data table for Figure 1.1. Percentage of persons of all ages without health insurance coverage at the time of interview: United States, 1997– June 2017**

Year	Percent	95% confidence interval
1997	15.4	15.0–15.8
1998	14.6	14.1–15.1
1999	14.2	13.8–14.6
2000	14.9	14.5–15.3
2001	14.3	13.8–14.8
2002	14.7	14.3–15.1
2003	15.2	14.8–15.7
2004 (Method 1 ¹)	14.7	14.3–15.2
2004 (Method 2 ¹)	14.6	14.2–15.0
2005	14.2	13.75–14.58
2006	14.8	14.34–15.34
2007	14.5	13.93–15.08
2008	14.7	14.04–15.27
2009	15.4	14.79–15.96
2010	16.0	15.46–16.52
2011	15.1	14.66–15.64
2012	14.7	14.29–15.21
2013	14.4	13.89–14.90
2014	11.5	11.06–11.94
2015	9.1	8.70–9.43
2016	9.0	8.43–9.50
January–June 2017	9.0	8.38–9.65

¹In the third quarter of 2004, two questions were added to the National Health Interview Survey (NHIS) insurance section to reduce potential errors in reporting Medicare and Medicaid status. Persons aged 65 and over not reporting Medicare coverage were asked explicitly about Medicare coverage, and persons under age 65 with no reported coverage were asked explicitly about Medicaid coverage. Depending on responses to these two questions, respondents may have been reclassified. Estimates of uninsurance for 2004 are calculated both without the additional information from these new questions (Method 1) and with the responses to these new questions (Method 2). Beginning in 2005, all estimates are reported using Method 2. See [Technical Notes](#) for additional information.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, NHIS transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

Data table for Figure 1.2. Percentage of persons under age 65 without health insurance coverage at the time of interview, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
Under 18, total	5.0	3.99–6.07
Under 18, male	5.1	3.90–6.45
Under 18, female	4.8	3.93–5.88
18–24, total	13.6	12.09–15.18
18–24, male	14.9	13.11–16.81
18–24, female	12.3	10.17–14.60
25–34, total	17.4	16.07–18.83
25–34, male	20.0	18.13–21.91
25–34, female	14.9	13.45–16.44
35–44, total	13.9	12.81–14.97
35–44, male	15.9	14.21–17.61
35–44, female	12.0	10.58–13.46
45–64, total	9.0	8.23–9.86
45–64, male	9.8	8.72–11.01
45–64, female	8.3	7.50–9.10
Under 65 (crude ¹), total	10.5	9.78–11.20
Under 65 (crude ¹), male	11.6	10.75–12.40
Under 65 (crude ¹), female	9.4	8.74–10.12
Under 65 (age-adjusted ²), total	10.6	9.88–11.33
Under 65 (age-adjusted ²), male	11.7	10.91–12.60
Under 65 (age-adjusted ²), female	9.5	8.77–10.20

¹Crude estimates are presented in the figure and are similar to those used to monitor the related Healthy People 2020 Leading Health Indicator, Proportion of persons with health insurance.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–44, and 45–64.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Data table for Figure 1.3. Age-sex-adjusted percentage of persons of all ages without health insurance coverage at the time of interview, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Age-sex-adjusted ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
Hispanic or Latino	18.5 (16.96–20.12)	18.4 (16.93–20.02)
Not Hispanic or Latino, single race, white	6.4 (5.78–7.08)	6.7 (6.04–7.37)
Not Hispanic or Latino, single race, black	9.2 (8.05–10.51)	9.3 (8.12–10.61)

¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over.

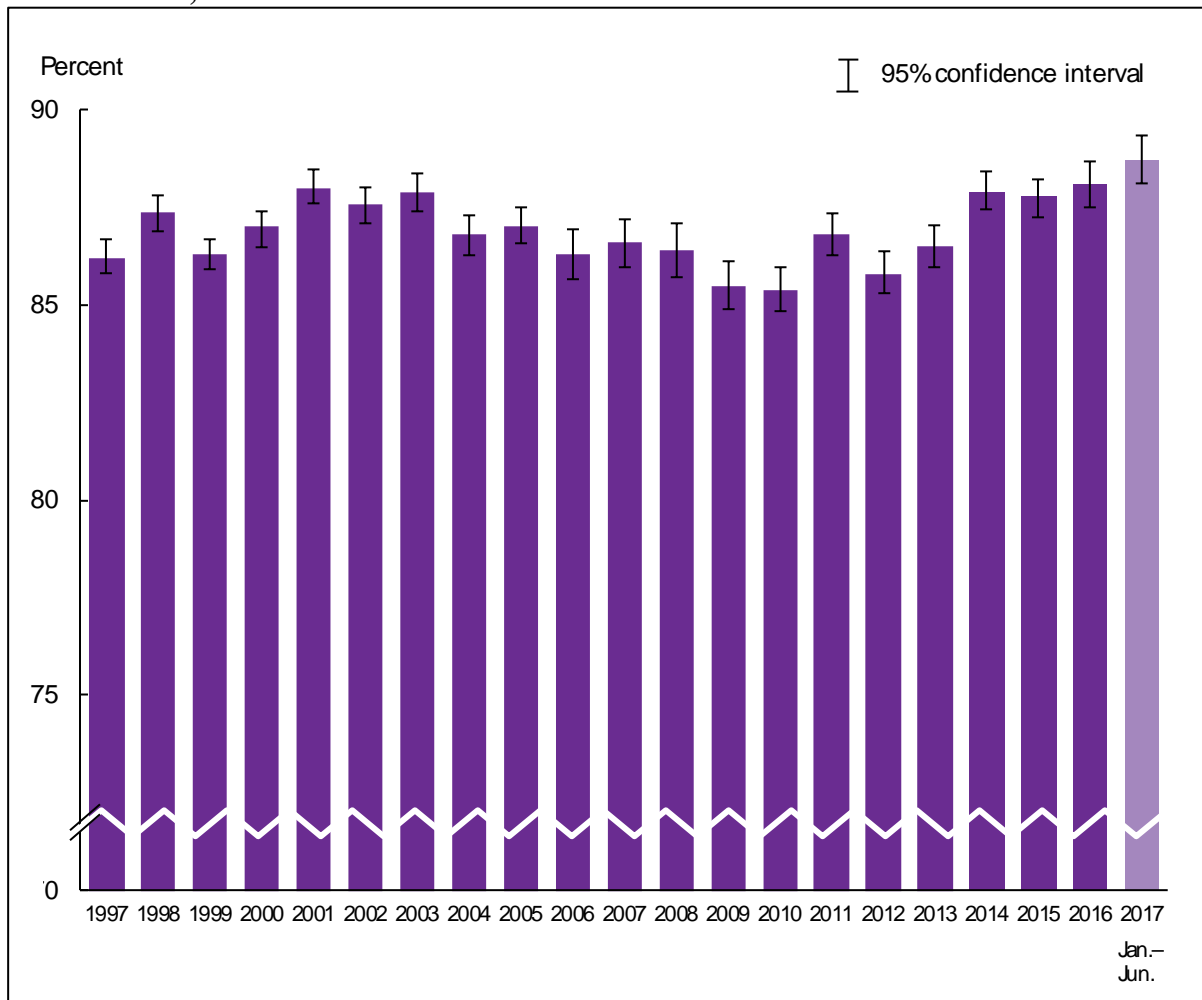
²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and four age groups: under 18 years, 18–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Usual place to go for medical care

Figure 2.1. Percentage of persons of all ages with a usual place to go for medical care: United States, 1997–June 2017

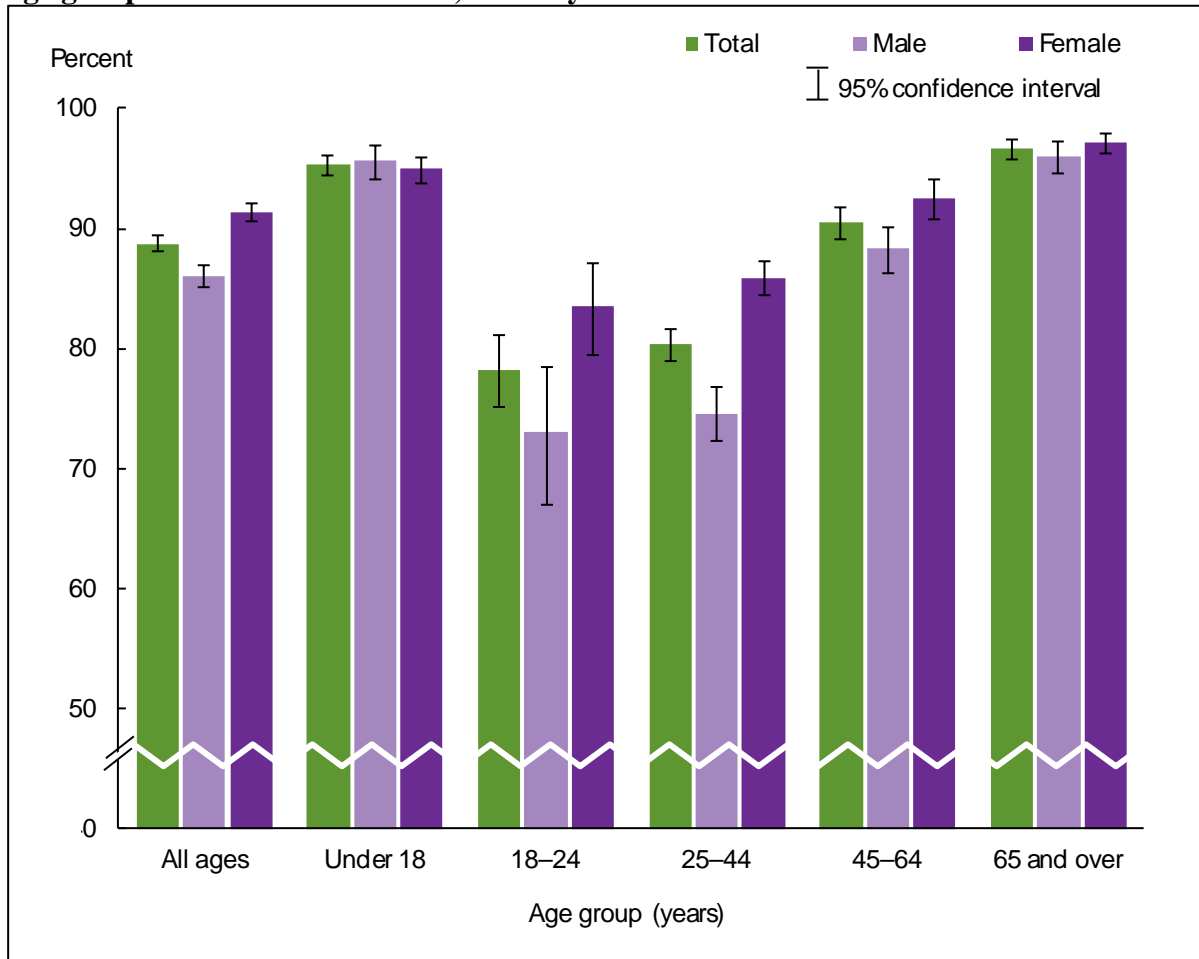


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The usual place to go for medical care does not include a hospital emergency room. The analyses exclude persons with an unknown usual place to go for medical care (about 1.5% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, combined Sample Adult and Sample Child Core components.

- For January–June 2017, the percentage of persons who had a usual place to go for medical care was 88.7% (95% confidence interval = 88.12%–89.35%), which was higher than, but not significantly different from, the 2016 estimate of 88.1%.
- The percentage of persons of all ages who had a usual place to go for medical care decreased, from 87.9% in 2003 to 85.4% in 2010, and then increased to 88.7% in January–June 2017.

Figure 2.2. Percentage of persons of all ages with a usual place to go for medical care, by age group and sex: United States, January–June 2017

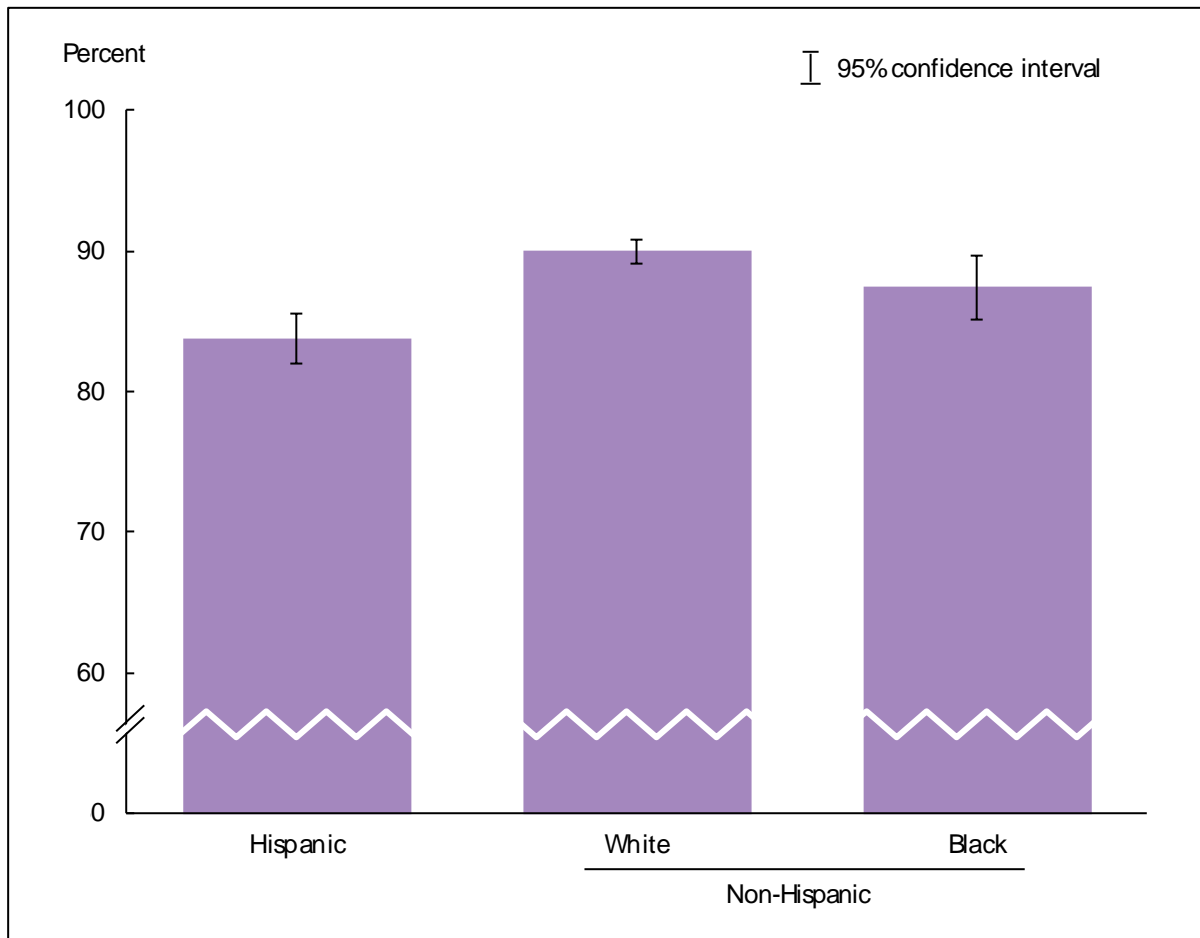


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The usual place to go for medical care does not include a hospital emergency room. The analyses excluded the 0.7% of persons with an unknown usual place to go for medical care. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- Persons aged 18–24 and 25–44 were least likely to have a usual place to go for medical care. Children under age 18 years (95.3%) were more likely than adults in age groups 18–24 (78.2%), 25–44 (80.3%), and 45–64 (90.5%) to have a usual place to go for medical care. This pattern held for males and females.
- For both sexes combined among those aged 25 and over, the percentage of persons having a usual place to go for medical care increased with age. This pattern held for males and females.
- For persons of all ages combined, as well as those aged 18–24, 25–44 and 45–64, females were more likely than males to have a usual place to go for medical care.

Figure 2.3. Age-sex-adjusted percentage of persons of all ages with a usual place to go for medical care, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The usual place to go for medical care does not include a hospital emergency room. The analyses exclude the 0.7% of persons with an unknown usual place to go for medical care. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: under 18 years, 18–24, 25–44, 45–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- After adjustment for age and sex, the percentage of persons with a usual place to go for medical care by race and ethnicity was 83.8% for Hispanic persons, 90.0% for non-Hispanic white persons, and 87.5% for non-Hispanic black persons.
- Both Hispanic persons and non-Hispanic black persons were less likely to have a usual place to go for medical care compared with non-Hispanic white persons.

Data tables for Figures 2.1–2.3:

Data table for Figure 2.1. Percentage of persons of all ages with a usual place to go for medical care: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	86.2 (85.8–86.7)	86.3 (85.9–86.7)
1998	87.4 (86.9–87.8)	87.4 (87.0–87.9)
1999	86.3 (85.9–86.7)	86.4 (86.0–86.8)
2000	87.0 (86.5–87.4)	87.0 (86.6–87.4)
2001	88.0 (87.6–88.5)	88.0 (87.6–88.5)
2002	87.6 (87.1–88.0)	87.6 (87.1–88.0)
2003	87.9 (87.4–88.4)	87.9 (87.4–88.4)
2004	86.8 (86.3–87.3)	86.8 (86.3–87.2)
2005	87.0 (86.56–87.50)	86.9 (86.47–87.41)
2006	86.3 (85.68–86.92)	86.2 (85.56–86.80)
2007	86.6 (85.97–87.19)	86.5 (85.84–87.06)
2008	86.4 (85.73–87.09)	86.2 (85.54–86.88)
2009	85.5 (84.91–86.12)	85.3 (84.65–85.90)
2010	85.4 (84.85–85.99)	85.1 (84.55–85.66)
2011	86.8 (86.29–87.33)	86.5 (85.99–87.04)
2012	85.8 (85.32–86.38)	85.5 (85.01–86.03)
2013	86.5 (85.99–87.07)	86.1 (85.63–86.67)
2014	87.9 (87.47–88.41)	87.6 (87.09–88.05)
2015	87.8 (87.26–88.24)	87.3 (86.80–87.77)
2016	88.1 (87.53–88.68)	87.6 (87.07–88.21)
January–June 2017	88.7 (88.12–89.35)	88.3 (87.67–88.91)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: under 18 years, 18–24, 25–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 2.2. Percentage of persons of all ages with a usual place to go for medical care, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
Under 18, total	95.3	94.40–96.06
Under 18, male	95.6	94.05–96.86
Under 18, female	94.9	93.74–95.98
18–24, total	78.2	75.10–81.09
18–24, male	73.0	67.01–78.38
18–24, female	83.5	79.42–87.04
25–44, total	80.3	78.89–81.68
25–44, male	74.6	72.32–76.77
25–44, female	85.9	84.36–87.30
45–64, total	90.5	89.11–91.75
45–64, male	88.3	86.32–90.07
45–64, female	92.6	90.74–94.11
65 and over, total	96.7	95.77–97.42
65 and over, male	96.0	94.50–97.26
65 and over, female	97.2	96.31–97.87
All ages (crude ¹), total	88.7	88.12–89.35
All ages (crude ¹), male	86.1	85.11–87.00
All ages (crude ¹), female	91.3	90.52–92.04
All ages (age-adjusted ²), total	88.3	87.67–88.91
All ages (age-adjusted ²), male	85.6	84.61–86.56
All ages (age-adjusted ²), female	90.9	90.12–91.63

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: under 18 years, 18–24, 25–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 2.3. Age-sex-adjusted percentage of persons of all ages with a usual place to go for medical care, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Age-sex-adjusted ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
Hispanic or Latino	83.8 (81.95–85.57)	83.8 (81.91–85.50)
Not Hispanic or Latino, single race, white	90.0 (89.06–90.85)	90.0 (89.03–90.86)
Not Hispanic or Latino, single race, black	87.5 (85.09–89.67)	87.8 (85.46–89.84)

¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and using five age groups: under 18 years, 18–24, 25–44, 45–64, and 65 and over.

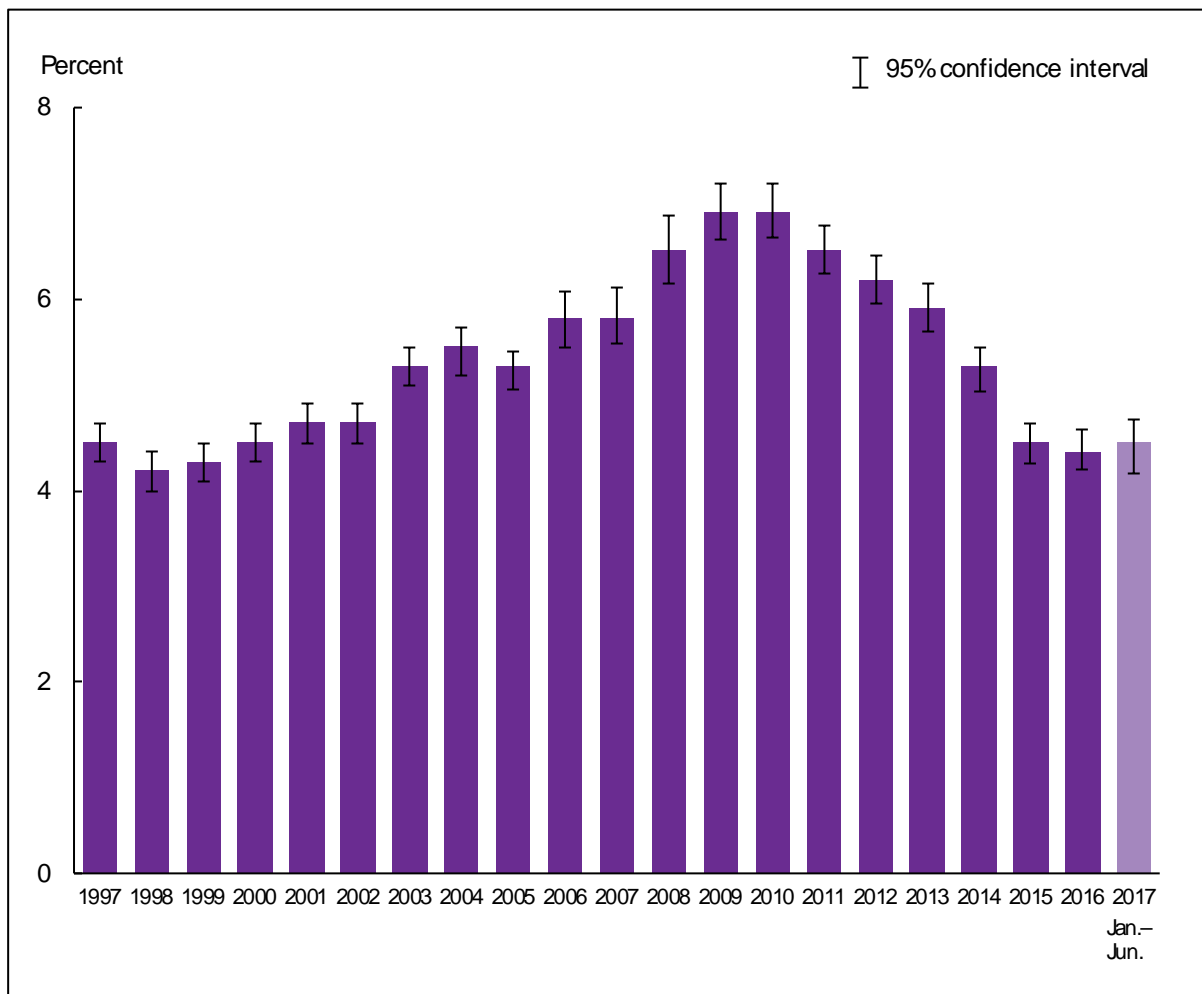
²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and using five age groups: under 18 years, 18–24, 25–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Failure to obtain needed medical care

Figure 3.1. Percentage of persons of all ages who failed to obtain needed medical care due to cost at some time during the past 12 months: United States, 1997– June 2017

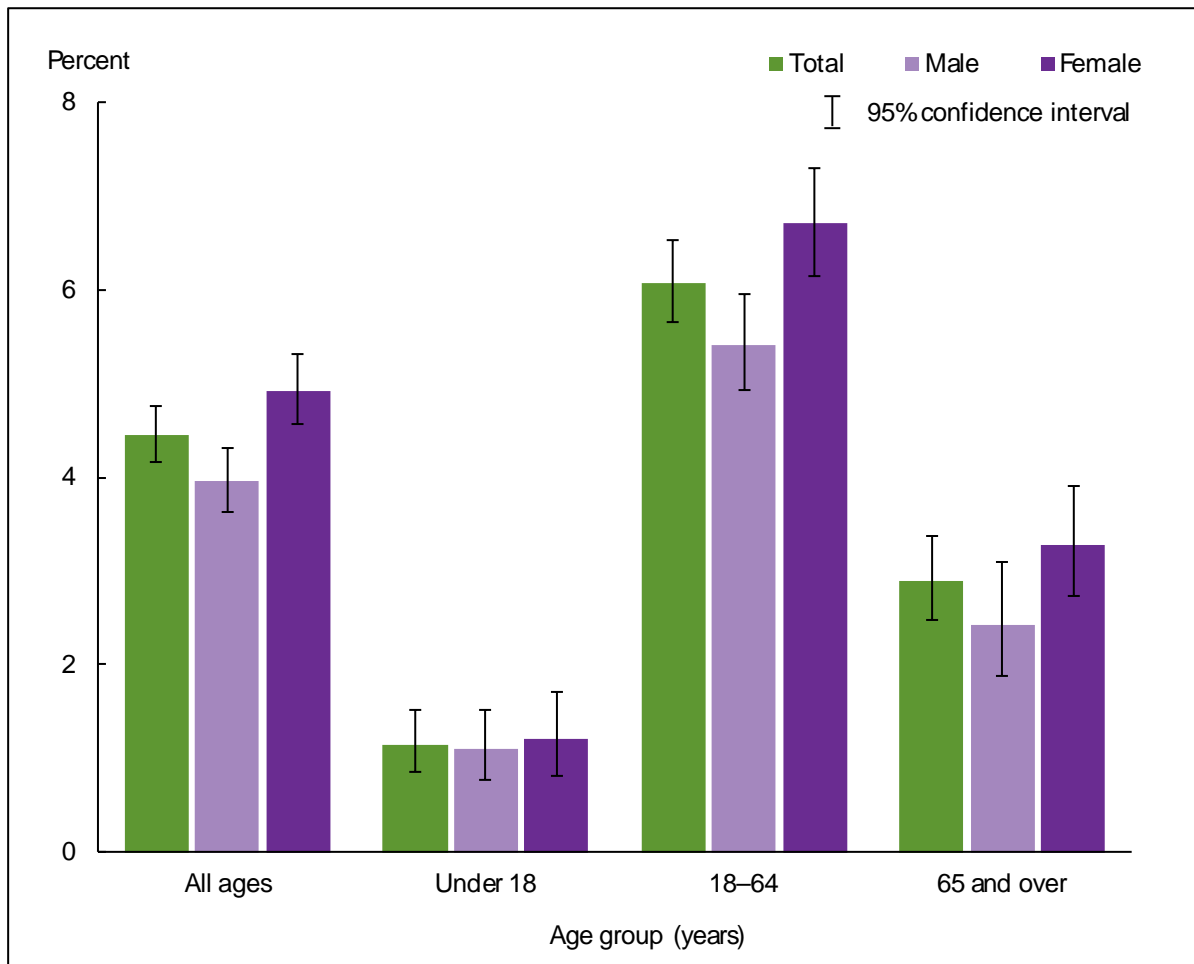


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude persons with unknown responses to the question on failure to obtain needed medical care due to cost (about 0.2% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

- For January–June 2017, 4.5% (95% confidence interval = 4.17%–4.75%) of the population failed to obtain needed medical care due to cost at some time during the past 12 months, which was not significantly different from the 2016 estimate of 4.4%.
- The percentage of persons who failed to obtain needed medical care due to cost increased, from 4.3% in 1999 to 6.9% in 2009 and 2010, and then decreased to 4.5% in January–June 2017.

Figure 3.2. Percentage of persons of all ages who failed to obtain needed medical care due to cost at some time during the past 12 months, by age group and sex: United States, January–June 2017

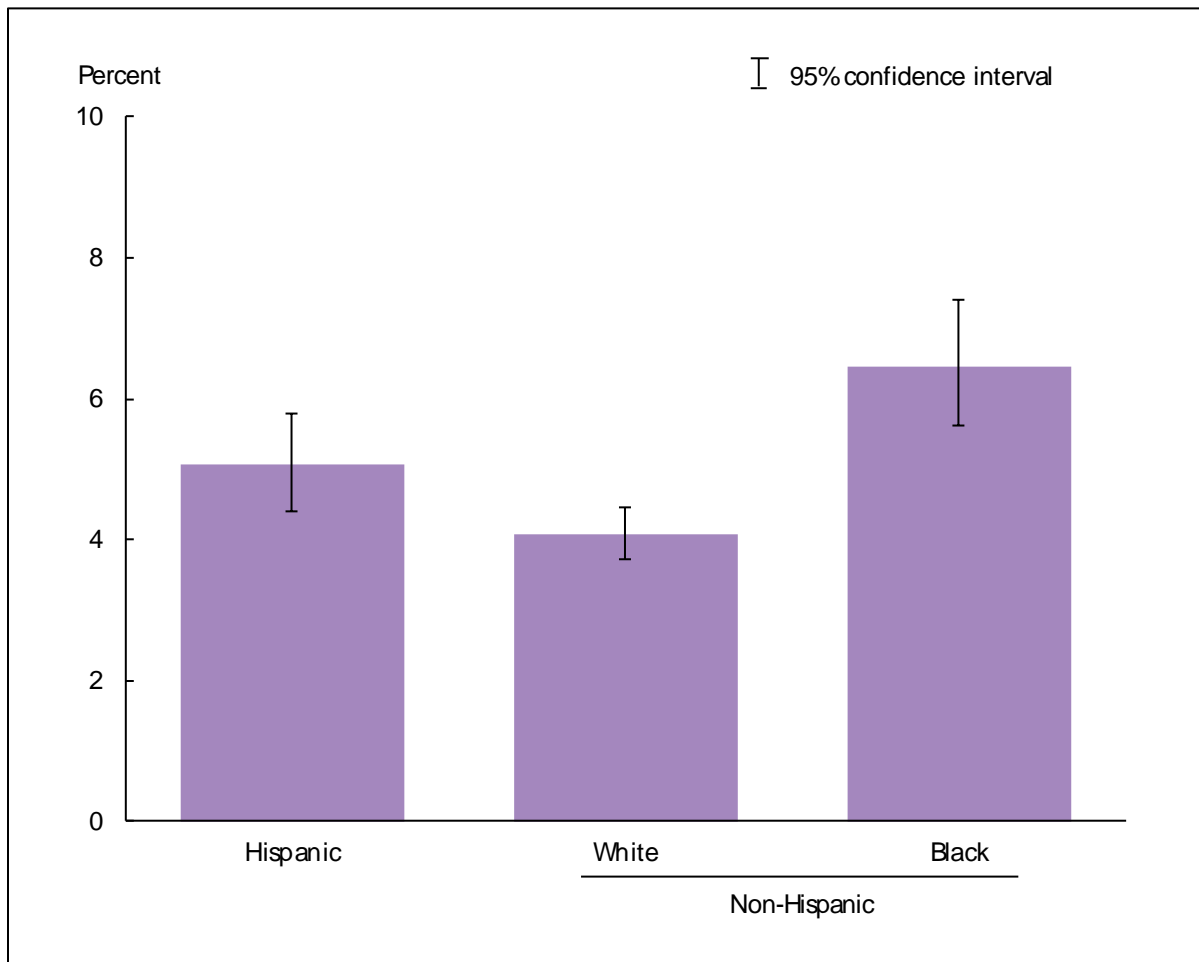


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude the <0.1% of persons with unknown responses to the question on failure to obtain needed medical care due to cost. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- For both sexes combined, the percentage of persons who failed to obtain needed medical care due to cost at some time during the past 12 months by age group was 1.2% for those under age 18 years, 6.1% for those aged 18–64, and 2.9% for those aged 65 and over.
- For both sexes combined, adults aged 18–64 were more likely than children under age 18 years and adults aged 65 and over to have failed to obtain needed medical care due to cost. This pattern held true for both males and females.
- For persons of all ages, adults aged 18–64, and those aged 65 and over, females were more likely than males to have failed to obtain needed medical care due to cost during the past 12 months.

Figure 3.3. Age-sex-adjusted percentage of persons of all ages who failed to obtain needed medical care due to cost at some time during the past 12 months, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude the <0.1% of persons with unknown responses to the question on failure to obtain needed medical care due to cost. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- After adjustment for age and sex, 5.1% of Hispanic persons, 4.1% of non-Hispanic white persons, and 6.5% of non-Hispanic black persons failed to obtain needed medical care due to cost at some time during the year preceding the interview.
- Non-Hispanic black persons were more likely to have failed to obtain needed medical care due to cost compared with Hispanic persons and non-Hispanic white persons.

Data tables for Figures 3.1–3.3:**Data table for Figure 3.1. Percentage of persons of all ages who failed to obtain needed medical care due to cost at some time during the past 12 months: United States, 1997–June 2017**

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	4.5 (4.3–4.7)	4.5 (4.4–4.7)
1998	4.2 (4.0–4.4)	4.2 (4.0–4.4)
1999	4.3 (4.1–4.5)	4.3 (4.1–4.5)
2000	4.5 (4.3–4.7)	4.5 (4.2–4.7)
2001	4.7 (4.5–4.9)	4.7 (4.5–4.9)
2002	4.7 (4.5–4.9)	4.7 (4.5–4.9)
2003	5.3 (5.1–5.5)	5.2 (5.0–5.5)
2004	5.5 (5.2–5.7)	5.4 (5.2–5.6)
2005	5.3 (5.05–5.45)	5.2 (4.99–5.40)
2006	5.8 (5.49–6.07)	5.7 (5.42–6.00)
2007	5.8 (5.54–6.11)	5.8 (5.47–6.03)
2008	6.5 (6.17–6.87)	6.4 (6.09–6.78)
2009	6.9 (6.62–7.21)	6.8 (6.54–7.12)
2010	6.9 (6.64–7.20)	6.8 (6.56–7.10)
2011	6.5 (6.26–6.77)	6.4 (6.18–6.68)
2012	6.2 (5.96–6.45)	6.1 (5.89–6.36)
2013	5.9 (5.66–6.16)	5.8 (5.60–6.10)
2014	5.3 (5.03–5.50)	5.2 (4.98–5.44)
2015	4.5 (4.29–4.69)	4.4 (4.25–4.65)
2016	4.4 (4.21–4.63)	4.4 (4.17–4.60)
January–June 2017	4.5 (4.17–4.75)	4.4 (4.11–4.71)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Family Core component.

Data table for Figure 3.2. Percentage of persons of all ages who failed to obtain needed medical care due to cost at some time during the past 12 months, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
Under 18, total	1.2	0.86–1.52
Under 18, male	1.1	0.77–1.52
Under 18, female	1.2	0.82–1.72
18–64, total	6.1	5.65–6.52
18–64, male	5.4	4.92–5.95
18–64, female	6.7	6.14–7.30
65 and over, total	2.9	2.47–3.38
65 and over, male	2.4	1.88–3.10
65 and over, female	3.3	2.73–3.90
All ages (crude ¹), total	4.5	4.17–4.75
All ages (crude ¹), male	4.0	3.62–4.32
All ages (crude ¹), female	4.9	4.56–5.31
All ages (age-adjusted ²), total	4.4	4.11–4.71
All ages (age-adjusted ²), male	3.9	3.57–4.30
All ages (age-adjusted ²), female	4.9	4.49–5.24

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and using three age groups: under 18 years, 18–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Data table for Figure 3.3. Age-sex-adjusted percentage of persons of all ages who failed to obtain needed medical care due to cost at some time during the past 12 months, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	5.1	4.40–5.78
Not Hispanic or Latino, single race, white	4.1	3.73–4.45
Not Hispanic or Latino, single race, black	6.5	5.61–7.41

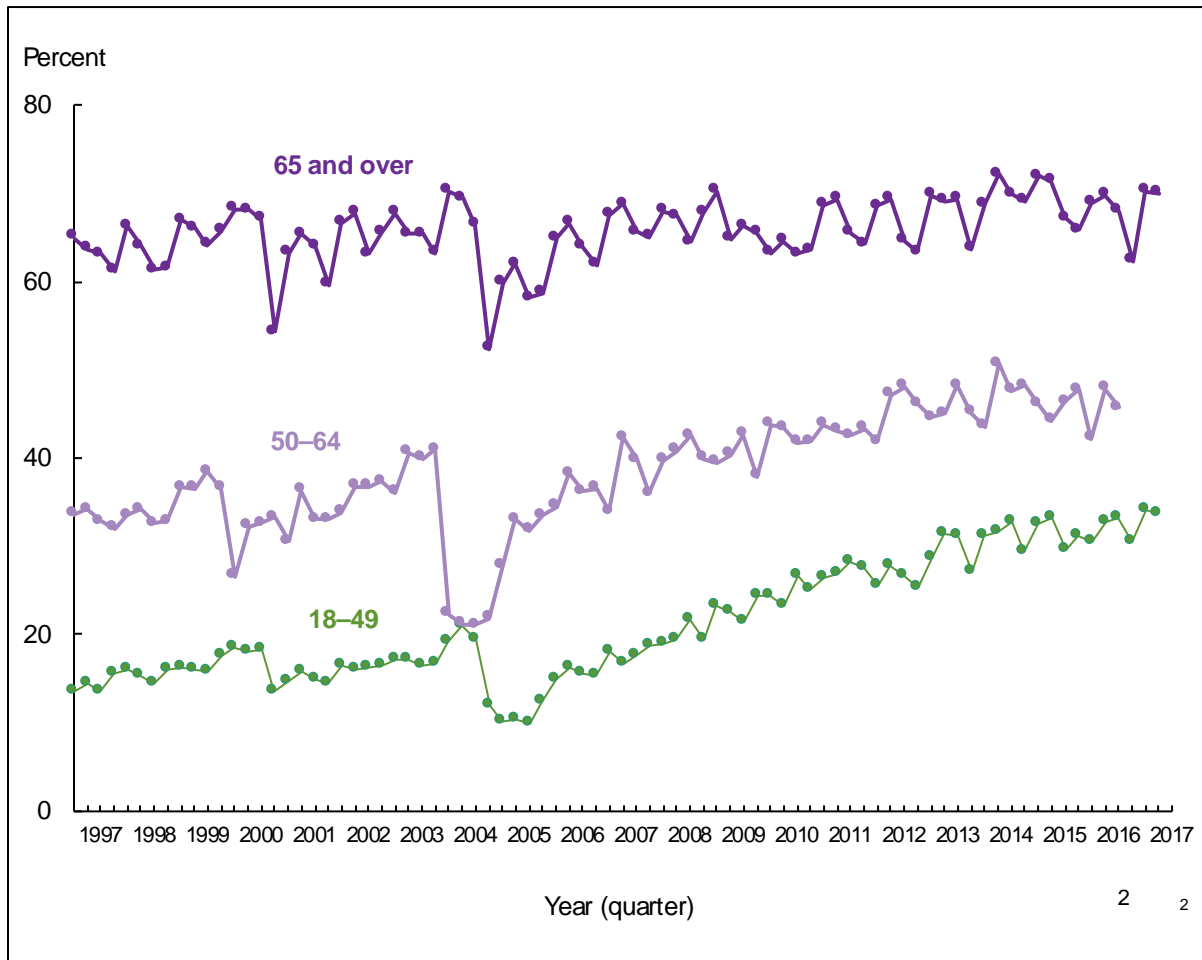
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Receipt of influenza vaccination

Figure 4.1. Percentage of adults aged 18 and over who received an influenza vaccination during the past 12 months, by age group and quarter: United States, 1997– June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Respondents were asked if they received a flu vaccination during the past 12 months. From August 2010 through 2011, questions were modified to reflect that the seasonal influenza vaccine included protection for the 2009 pandemic H1N1 virus. Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (see <https://www.cdc.gov/flu/fluview>). Advisory Committee on Immunization Practices recommendations regarding who should receive an influenza vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (4–8). The analyses exclude the 2.0% of persons with unknown influenza vaccination status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- In the second quarter of 2017, the percentage of adults who received an influenza vaccination during the past 12 months by age group was 70.0% for adults aged 65 and over, 45.7% for those aged 50–64, and 33.6% for those aged 18–49.
- For the age group 18–49, the second-quarter estimate in 2017 (33.6%) was higher than, but not significantly different from, the second-quarter estimate in 2016 (32.7%).
- For the age group 50–64, the second-quarter estimate in 2017 (45.7%) was lower than, but not significantly different from, the second-quarter estimate in 2016 (46.4%).
- For adults 65 and over, the second-quarter estimate in 2017 (70.0%) was not significantly different from the second-quarter estimate in 2016 (69.8%).

Table 4.1a. Percentage of adults aged 50–64 who received an influenza vaccination during the past 12 months, by sex: United States, 1997–June 2017

Year	Total	Men	Women
	Percent (95% confidence interval)		
1997	31.9 (30.5–33.3)	28.0 (26.1–29.9)	35.5 (33.6–37.4)
1998	33.1 (31.7–34.5)	29.0 (27.0–31.0)	37.0 (35.1–38.9)
1999	34.1 (32.8–35.4)	30.5 (28.6–32.4)	37.4 (35.5–39.3)
2000	34.6 (33.1–36.1)	31.9 (29.9–33.9)	37.2 (35.2–39.1)
2001	32.2 (30.9–33.5)	30.3 (28.3–32.2)	34.0 (32.2–35.8)
2002	34.0 (32.7–35.3)	30.7 (28.8–32.5)	37.2 (35.4–38.9)
2003	36.8 (35.4–38.2)	34.5 (32.6–36.3)	38.9 (37.0–40.9)
2004	35.9 (34.6–37.3)	33.3 (31.3–35.3)	38.5 (36.7–40.3)
2005	23.0 (21.93–24.10)	19.7 (18.11–21.36)	26.1 (24.61–27.52)
2006	33.2 (31.59–34.82)	29.9 (27.58–32.18)	36.3 (34.23–38.36)
2007	36.2 (34.56–37.93)	33.0 (30.94–35.05)	39.3 (36.93–41.64)
2008	39.4 (37.79–41.10)	36.3 (34.04–38.56)	42.4 (40.18–44.68)
2009	40.7 (39.31–42.07)	38.3 (36.23–40.30)	43.0 (40.92–45.03)
2010	41.2 (39.73–42.66)	37.5 (35.41–39.56)	44.7 (42.78–46.56)
2011	42.7 (41.31–44.08)	39.0 (36.95–41.00)	46.2 (44.23–48.16)
2012	42.7 (41.44–43.99)	38.5 (36.87–40.11)	46.7 (44.94–48.50)
2013	46.5 (45.05–47.97)	43.1 (40.92–45.35)	49.7 (47.88–51.43)
2014	45.5 (43.91–47.03)	41.0 (38.65–43.38)	49.6 (47.70–51.59)
2015	48.1 (46.46–49.79)	45.3 (43.12–47.50)	50.8 (48.59–52.92)
2016	45.2 (43.88–46.47)	42.0 (40.16–43.77)	48.2 (46.30–50.09)
January–June 2017	46.8 (44.84–48.82)	43.6 (41.08–46.06)	49.8 (46.88–52.74)

See notes at end of table 4.1b.

Table 4.1b. Percentage of adults aged 65 and over who received an influenza vaccination during the past 12 months, by sex: United States, 1997–June 2017

Year	Total	Total	Men	Women
	Crude percent (95% confidence interval)	Age-adjusted percent (95% confidence interval) ¹	Percent (95% confidence interval)	Percent (95% confidence interval)
1997	63.2 (61.9–64.6)	63.1 (61.7–64.4)	64.8 (62.5–67.1)	62.1 (60.5–63.7)
1998	63.3 (61.9–64.7)	63.3 (61.9–64.6)	63.7 (61.5–65.9)	63.0 (61.2–64.8)
1999	65.7 (64.3–67.2)	65.1 (63.6–66.5)	67.2 (65.0–69.4)	64.6 (62.7–66.5)
2000	64.4 (63.0–65.9)	64.6 (63.2–66.0)	66.0 (63.8–68.3)	63.3 (61.6–65.0)
2001	63.1 (61.7–64.5)	63.2 (61.8–64.6)	64.8 (62.5–67.1)	61.8 (60.1–63.5)
2002	65.7 (64.3–67.2)	65.9 (64.5–67.3)	67.1 (64.7–69.5)	64.7 (62.8–66.6)
2003	65.5 (64.1–66.9)	65.6 (64.2–66.9)	66.0 (63.9–68.1)	65.1 (63.2–67.0)
2004	64.6 (63.2–66.1)	64.7 (63.2–66.1)	64.1 (61.9–66.3)	65.0 (63.3–66.7)
2005	59.7 (58.16–61.15)	59.7 (58.24–61.23)	58.9 (56.64–61.17)	60.2 (58.22–62.20)
2006	64.3 (62.39–66.19)	64.4 (62.51–66.32)	64.7 (62.04–67.43)	63.9 (61.65–66.24)
2007	66.7 (64.90–68.59)	66.8 (65.00–68.68)	66.7 (64.06–69.31)	66.8 (64.62–68.96)
2008	66.9 (65.08–68.80)	67.1 (65.31–68.89)	65.5 (62.74–68.33)	68.0 (65.94–70.07)
2009	66.7 (64.99–68.48)	67.0 (65.32–68.69)	67.3 (64.82–69.82)	66.3 (64.11–68.46)
2010	63.6 (61.99–65.29)	63.9 (62.26–65.50)	63.1 (60.76–65.52)	64.0 (61.79–66.26)
2011	67.0 (65.45–68.50)	67.2 (65.74–68.75)	66.3 (64.12–68.53)	67.5 (65.68–69.30)
2012	66.5 (64.98–67.96)	66.9 (65.46–68.38)	65.2 (63.17–67.29)	67.4 (65.56–69.34)
2013	67.9 (66.38–69.48)	68.4 (66.89–69.92)	66.4 (63.89–68.87)	69.2 (67.42–70.88)
2014	70.0 (68.62–71.38)	70.5 (69.09–71.86)	70.1 (67.94–72.31)	69.9 (68.23–71.59)
2015	69.1 (67.79–70.33)	69.4 (68.14–70.63)	70.4 (68.66–72.18)	68.0 (66.16–69.75)
2016	67.2 (65.77–68.65)	67.7 (66.33–69.17)	66.7 (64.72–68.75)	67.6 (65.97–69.21)
January–June 2017	70.2 (68.15–72.22)	71.1 (69.16–73.04)	71.9 (69.17–74.60)	68.8 (65.92–71.57)

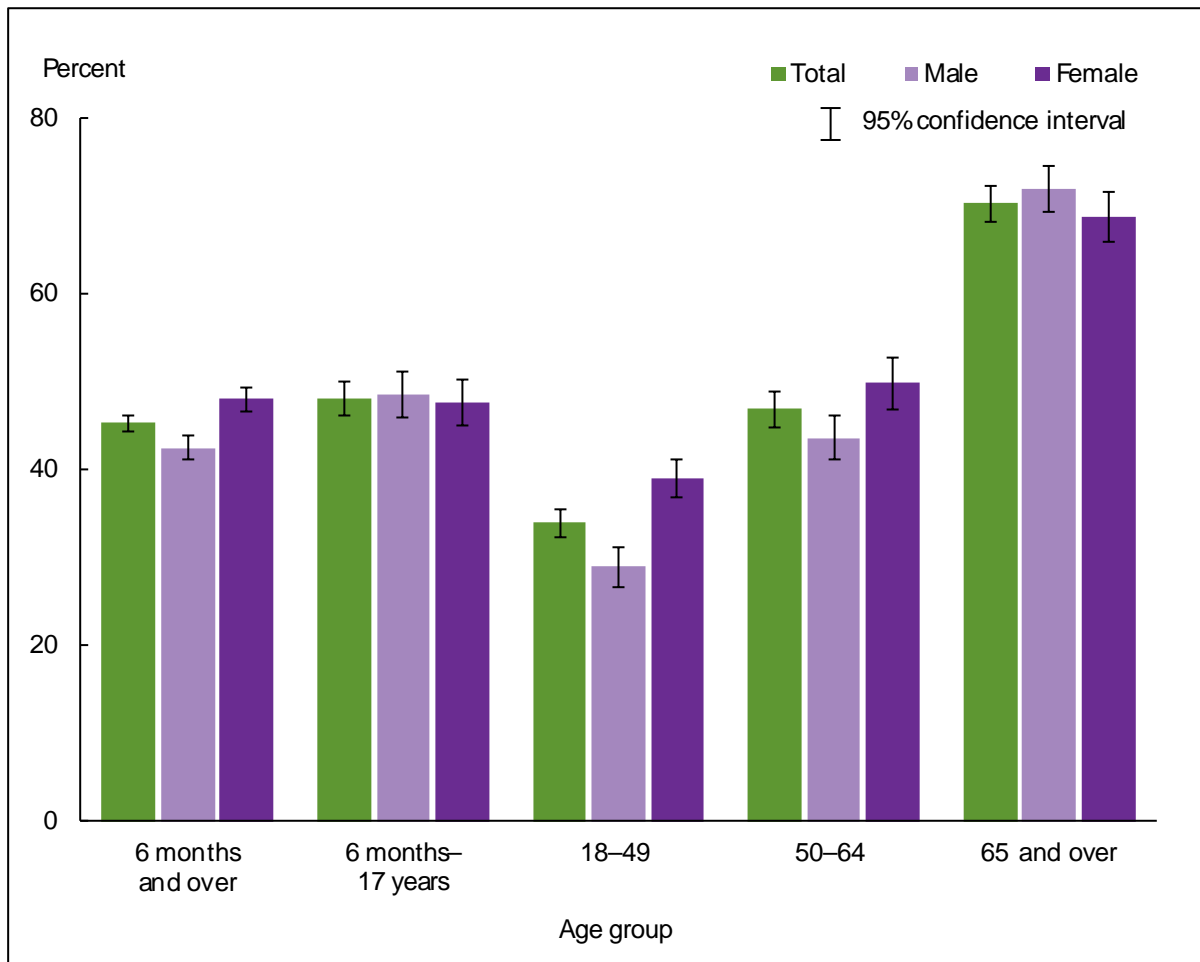
¹Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and two age groups: 65–74 and 75 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Respondents were asked if they received a flu vaccination during the past 12 months. From August 2010 through 2011, questions were modified to reflect that the seasonal influenza vaccine included protection for the 2009 pandemic H1N1 virus. Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (see <https://www.cdc.gov/flu/fluview>). Advisory Committee on Immunization Practices recommendations regarding who should receive an influenza vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (4–8). The analyses exclude the 2.0% of persons with unknown influenza vaccination status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, the percentage of adults aged 50–64 who received an influenza vaccination during the past 12 months was 46.8% (95% confidence interval = 44.84–48.82) (Table 4.1a). This estimate was higher than, but not significantly different from, the 2016 estimate of 45.2%. For this age group, the percentage of adults who received an influenza vaccination during the past 12 months generally increased from 1997 to January–June 2017.
- For January–June 2017, the percentage of adults aged 65 and over who received an influenza vaccination during the past 12 months was 70.2%, which was higher than, but not significantly different from, the 2016 estimate of 67.2% (Table 4.1b). For this age group, the percentage of adults who received an influenza vaccination during the past 12 months increased from 1997 to January–June 2017.

Figure 4.2. Percentage of persons who received an influenza vaccination during the past 12 months, by age group and sex: United States, January–June 2017

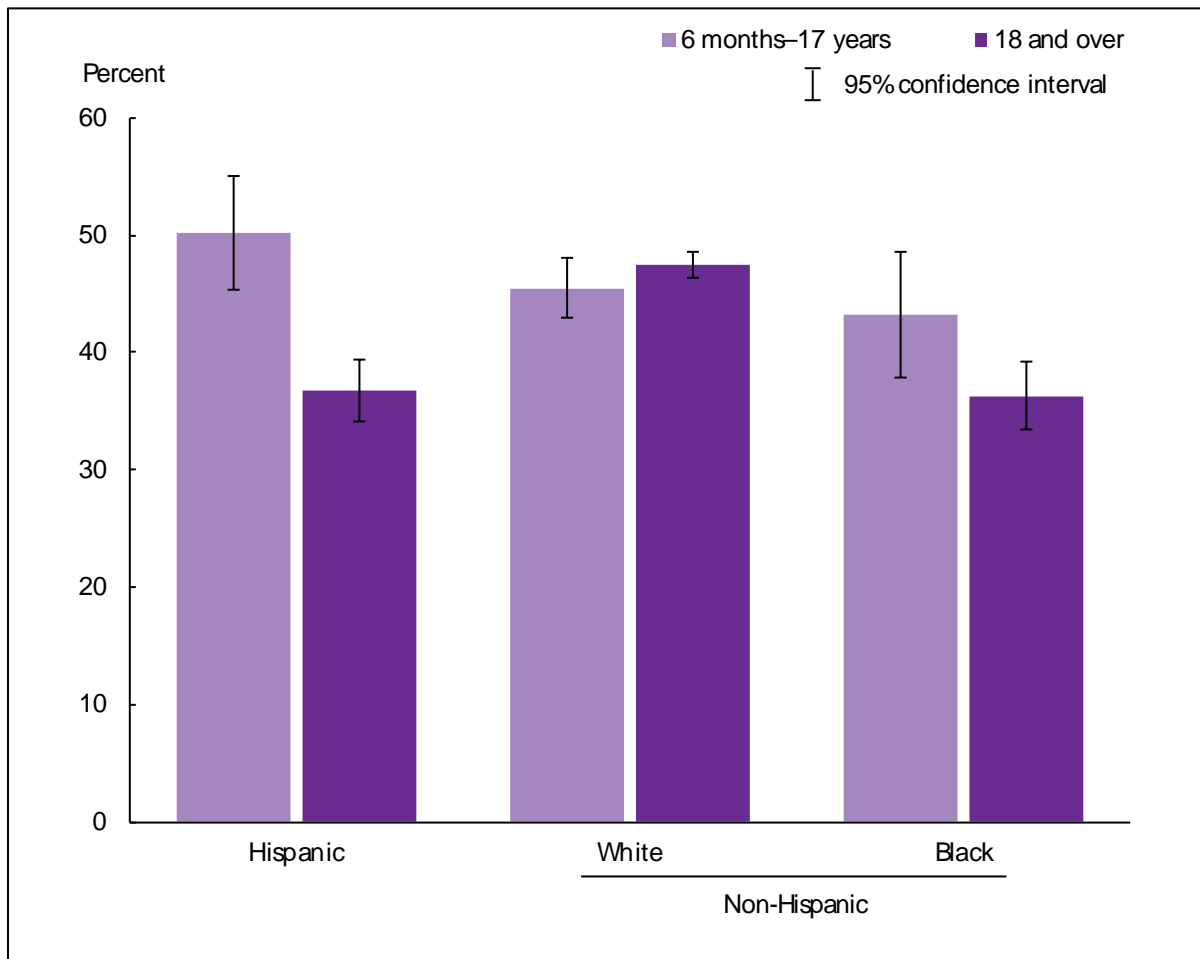


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Respondents were asked if they received a flu vaccination during the past 12 months. From August 2010 through 2011, questions were modified to reflect that the seasonal influenza vaccine included protection for the 2009 pandemic H1N1 virus. Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (see <https://www.cdc.gov/flu/fluview>). Advisory Committee on Immunization Practices recommendations regarding who should receive an influenza vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (4–8). The analyses exclude the 2.0% of persons with unknown influenza vaccination status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- For both sexes combined, the percentage of persons who received an influenza vaccination during the past 12 months was highest among persons aged 65 and over (70.2%) and lowest among persons aged 18–49 (33.9%). This pattern held true for males and females.
- For persons aged 6 months and over and for adults aged 18–49 and 50–64, females were more likely than males to have received an influenza vaccination during the past 12 months.

Figure 4.3. Percentage of persons aged 6 months and over who received an influenza vaccination during the past 12 months, by age group and race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Respondents were asked if they received a flu vaccination during the past 12 months. From August 2010 through 2011, questions were modified to reflect that the seasonal influenza vaccine included protection for the 2009 pandemic H1N1 virus. Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (see <https://www.cdc.gov/flu/fluview>). Advisory Committee on Immunization Practices recommendations regarding who should receive an influenza vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (4–8). The analyses exclude the 2.0% of persons with unknown influenza vaccination status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- For children aged 6 months–17 years, the percentage by race and ethnicity who received an influenza vaccination during the past 12 months was 50.2% for Hispanic children, 45.5% for non-Hispanic white children, and 43.2% for non-Hispanic black children.
- No significant differences in the prevalence of receiving an influenza vaccination during the past 12 months by race and ethnicity groups were found for children aged 6 months–17 years.
- For adults aged 18 and over, the percentage who received an influenza vaccination during the past 12 months was 36.7% for Hispanic adults, 47.4% for non-Hispanic white adults, and 36.3% for non-Hispanic black adults.
- Non-Hispanic white adults were more likely to have received an influenza vaccination than non-Hispanic black adults and Hispanic adults.

Data tables for Figures 4.1–4.3:

Data table for Figure 4.1. Percentage of adults aged 18 and over who received an influenza vaccination during the past 12 months, by age group and quarter: United States, 1997–June 2017

Year and quarter	18–49	50–64	65 and over
	Percent (95% confidence interval)		
1997, quarter 1	13.6 (12.5–14.6)	30.5 (27.8–33.2)	65.0 (62.3–67.6)
1997, quarter 2	14.5 (13.4–15.5)	31.3 (28.7–34.0)	63.7 (61.1–66.2)
1997, quarter 3	13.6 (12.6–14.6)	32.0 (29.3–34.6)	63.1 (60.3–65.9)
1997, quarter 4	15.6 (14.5–16.7)	33.6 (31.1–36.2)	61.2 (58.7–63.8)
1998, quarter 1	16.1 (14.8–17.3)	34.2 (31.3–37.1)	66.3 (63.2–69.4)
1998, quarter 2	15.3 (14.1–16.5)	32.8 (30.1–35.5)	64.0 (61.3–66.8)
1998, quarter 3	14.5 (13.3–15.6)	32.0 (29.3–34.6)	61.3 (58.5–64.0)
1998, quarter 4	16.0 (14.8–17.2)	33.5 (30.8–36.1)	61.6 (58.7–64.5)
1999, quarter 1	16.3 (14.8–17.7)	34.2 (31.1–37.3)	67.0 (64.0–70.1)
1999, quarter 2	16.0 (14.7–17.3)	32.6 (29.8–35.4)	66.1 (63.4–68.8)
1999, quarter 3	15.8 (14.5–17.1)	32.8 (30.1–35.5)	64.1 (61.2–67.0)
1999, quarter 4	17.6 (16.2–18.9)	36.7 (34.2–39.2)	65.7 (62.7–68.6)
2000, quarter 1	18.6 (17.2–19.9)	36.6 (33.7–39.4)	68.2 (65.3–71.0)
2000, quarter 2	18.0 (16.7–19.4)	38.5 (35.7–41.4)	68.1 (65.6–70.7)
2000, quarter 3	18.2 (16.9–19.4)	36.6 (33.7–39.5)	67.1 (64.4–69.8)
2000, quarter 4	13.6 (12.4–14.8)	26.6 (24.2–29.0)	54.3 (51.6–57.1)
2001, quarter 1	14.7 (13.4–16.0)	32.3 (29.6–35.0)	63.3 (60.2–66.3)
2001, quarter 2	15.9 (14.7–17.1)	32.6 (30.1–35.1)	65.4 (62.8–68.0)
2001, quarter 3	14.9 (13.9–15.9)	33.3 (30.7–35.8)	64.0 (61.1–66.8)
2001, quarter 4	14.5 (13.6–15.9)	30.6 (28.0–33.1)	59.6 (56.7–62.4)
2002, quarter 1	16.4 (15.2–17.7)	36.3 (33.6–38.9)	66.6 (63.8–69.4)
2002, quarter 2	16.0 (14.8–17.2)	33.0 (30.5–35.5)	67.8 (65.3–70.3)
2002, quarter 3	16.2 (14.9–17.5)	33.1 (30.6–35.6)	63.1 (60.5–65.8)
2002, quarter 4	16.4 (15.1–17.8)	33.8 (31.0–36.6)	65.5 (62.4–68.6)
2003, quarter 1	17.1 (15.7–18.4)	36.8 (34.2–39.4)	67.8 (65.0–70.6)
2003, quarter 2	17.2 (15.8–18.6)	36.8 (33.9–39.7)	65.4 (62.6–68.3)
2003, quarter 3	16.4 (15.2–17.6)	37.4 (34.9–39.9)	65.4 (62.8–67.9)
2003, quarter 4	16.7 (15.2–18.1)	36.1 (33.3–39.0)	63.3 (60.1–66.5)
2004, quarter 1	19.3 (17.9–20.8)	40.6 (38.0–43.3)	70.3 (67.5–73.0)
2004, quarter 2	20.9 (19.1–22.6)	40.0 (37.1–43.0)	69.5 (66.7–72.3)
2004, quarter 3	19.4 (18.2–20.7)	41.0 (38.4–43.6)	66.4 (63.6–69.2)
2004, quarter 4	12.0 (10.9–13.1)	22.3 (20.2–24.5)	52.4 (49.5–55.4)
2005, quarter 1	10.2 (9.03–11.41)	21.2 (19.05–23.42)	59.8 (56.66–62.90)
2005, quarter 2	10.3 (9.25–11.37)	21.1 (19.05–23.19)	62.0 (59.02–64.91)
2005, quarter 3	10.0 (9.03–11.03)	21.8 (19.64–24.01)	58.2 (55.42–60.97)
2005, quarter 4	12.4 (11.28–13.51)	27.8 (25.47–30.19)	58.7 (55.68–61.71)

See notes at end of table.

Data table for Figure 4.1. Percentage of adults aged 18 and over who received an influenza vaccination during the past 12 months, by age group and quarter: United States, 1997–June 2017 (Cont.)

Year and quarter	18–49	50–64	65 and over
	Percent (95% confidence interval)		
2006, quarter 1	15.0 (13.69–16.36)	33.1 (29.95–36.20)	64.9 (61.65–68.15)
2006, quarter 2	16.2 (14.78–17.68)	31.8 (29.05–34.50)	66.6 (63.60–69.51)
2006, quarter 3	15.5 (13.56–17.47)	33.5 (29.45–37.51)	63.9 (58.90–68.84)
2006, quarter 4	15.4 (14.07–16.82)	34.5 (31.81–37.11)	61.9 (58.72–65.00)
2007, quarter 1	18.0 (16.36–19.63)	38.3 (35.28–41.39)	67.5 (64.47–70.62)
2007, quarter 2	16.7 (15.07–18.31)	36.2 (33.37–39.03)	68.8 (65.62–71.91)
2007, quarter 3	17.6 (15.47–19.74)	36.5 (32.10–40.95)	65.6 (60.90–70.39)
2007, quarter 4	18.7 (17.11–20.38)	34.0 (31.14–36.79)	65.1 (62.17–68.02)
2008, quarter 1	19.0 (17.41–20.56)	42.3 (39.12–45.57)	68.0 (64.78–71.21)
2008, quarter 2	19.5 (17.87–21.08)	39.8 (37.01–42.57)	67.4 (64.60–70.20)
2008, quarter 3	21.6 (19.95–23.26)	36.0 (33.10–38.86)	64.5 (61.09–68.00)
2008, quarter 4	19.4 (17.29–21.60)	39.7 (35.45–43.92)	67.8 (63.70–71.91)
2009, quarter 1	23.3 (20.81–25.78)	40.9 (37.05–44.67)	70.3 (66.08–74.59)
2009, quarter 2	22.5 (20.92–24.06)	42.5 (40.09–44.93)	64.8 (62.04–67.55)
2009, quarter 3	21.4 (19.81–22.98)	40.0 (37.13–42.82)	66.3 (63.03–69.48)
2009, quarter 4	24.5 (23.06–25.93)	39.5 (37.24–41.75)	65.5 (62.96–68.03)
2010, quarter 1	24.3 (22.45–26.17)	40.4 (37.81–43.05)	63.3 (60.51–66.04)
2010, quarter 2	23.3 (21.56–25.02)	42.7 (39.65–45.74)	64.6 (61.74–67.39)
2010, quarter 3	26.7 (24.81–28.64)	37.9 (35.02–40.69)	63.1 (59.87–66.39)
2010, quarter 4	25.1 (23.24–27.04)	43.8 (40.80–46.82)	63.6 (60.19–66.99)
2011, quarter 1	26.4 (24.86–27.93)	43.4 (40.61–46.17)	68.7 (66.01–71.37)
2011, quarter 2	26.9 (25.32–28.46)	41.7 (38.97–44.39)	69.4 (67.00–71.78)
2011, quarter 3	28.2 (26.47–29.87)	41.9 (39.23–44.57)	65.5 (62.59–68.50)
2011, quarter 4	27.5 (25.48–29.47)	43.8 (41.26–46.32)	64.3 (61.52–67.14)
2012, quarter 1	25.5 (23.78–27.25)	43.1 (40.28–46.00)	68.6 (65.62–71.63)
2012, quarter 2	27.9 (26.16–29.55)	42.5 (39.69–45.21)	69.4 (66.84–72.03)
2012, quarter 3	26.6 (24.68–28.54)	43.3 (40.95–45.73)	64.6 (61.86–67.32)
2012, quarter 4	25.2 (23.49–26.84)	41.9 (39.03–44.78)	63.4 (60.28–66.44)
2013, quarter 1	28.7 (26.90–30.51)	47.2 (44.43–49.88)	69.8 (66.84–72.70)
2013, quarter 2	31.5 (29.65–33.44)	48.1 (45.22–50.95)	69.1 (66.21–71.97)
2013, quarter 3	31.2 (29.45–32.96)	46.2 (43.58–48.90)	69.3 (66.30–72.20)
2013, quarter 4	27.0 (25.21–28.71)	44.6 (41.64–47.54)	63.7 (60.59–66.77)
2014, quarter 1	31.2 (29.29–33.06)	45.0 (42.03–47.95)	68.8 (65.96–71.63)
2014, quarter 2	31.6 (29.55–33.72)	48.2 (45.02–51.40)	72.2 (69.54–74.86)
2014, quarter 3	32.7 (30.64–34.67)	45.1 (42.11–48.11)	69.9 (67.35–72.48)
2014, quarter 4	29.3 (27.66–30.96)	43.6 (40.90–46.26)	69.1 (66.38–71.85)
2015, quarter 1	32.5 (30.48–34.43)	50.7 (47.82–53.52)	71.9 (69.48–74.34)
2015, quarter 2	33.3 (31.49–35.03)	47.6 (44.68–50.47)	71.4 (68.76–74.13)
2015, quarter 3	29.7 (27.83–31.62)	48.2 (45.07–51.38)	67.2 (64.35–69.96)
2015, quarter 4	31.2 (28.84–33.52)	46.0 (43.07–48.90)	65.8 (63.05–68.60)
2016, quarter 1	30.5 (28.28–32.69)	44.3 (41.52–47.17)	68.9 (66.52–71.24)

See notes at end of table.

Data table for Figure 4.1. Percentage of adults aged 18 and over who received an influenza vaccination during the past 12 months, by age group and quarter: United States, 1997–June 2017 (Cont.)

Year and quarter	18–49	50–64	65 and over
	Percent (95% confidence interval)		
2016, quarter 2	32.7 (31.07–34.43)	46.4 (43.37–49.52)	69.8 (67.11–72.54)
2016, quarter 3	33.3 (31.18–35.39)	47.7 (45.12–50.25)	68.0 (65.15–70.81)
2016, quarter 4	30.6 (28.46–32.73)	42.2 (39.40–44.92)	62.3 (59.49–65.05)
2017, quarter 1	34.1 (31.91–36.44)	47.9 (45.10–50.75)	70.3 (68.12–72.33)
2017, quarter 2	33.6 (31.12–36.19)	45.7 (42.73–48.63)	70.0 (66.72–73.09)

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 4.2. Percentage of persons who received an influenza vaccination during the past 12 months, by age group and sex: United States, January–June 2017

Age (months and years) and sex	Percent	95% confidence interval
6 months–4 years, total	55.5	51.44–59.45
6 months–4 years, male	56.3	51.53–60.92
6 months–4 years, female	54.6	47.44–61.66
5–11, total	49.7	46.50–52.99
5–11, male	49.6	45.78–53.51
5–11, female	49.9	45.46–54.24
12–17, total	40.8	37.72–43.93
12–17, male	41.5	37.36–45.73
12–17, female	40.1	35.61–44.66
6 months–17 years, total	48.0	46.20–49.87
6 months–17 years, male	48.5	45.89–51.07
6 months–17 years, female	47.6	44.99–50.16
18–49, total	33.9	32.35–35.52
18–49, male	28.9	26.63–31.17
18–49, female	38.9	36.79–41.12
50–64, total	46.8	44.84–48.82
50–64, male	43.6	41.08–46.06
50–64, female	49.8	46.88–52.74
65 and over, total	70.2	68.15–72.22
65 and over, male	71.9	69.17–74.60
65 and over, female	68.8	65.92–71.57
6 months and over (crude ¹), total	45.3	44.32–46.21
6 months and over (crude ¹), male	42.4	41.06–43.78
6 months and over (crude ¹), female	48.0	46.60–49.39
18 and over (crude ¹), total	44.5	43.48–45.48
18 and over (crude ¹), male	40.6	39.07–42.13
18 and over (crude ¹), female	48.1	46.55–49.67
65 and over (age–adjusted ²), total	71.1	69.16–73.04
65 and over (age–adjusted ²), male	73.2	70.73–75.53
65 and over (age–adjusted ²), female	69.5	66.65–72.24

¹Crude estimates are presented.

²Estimates are age–adjusted using the projected 2000 U.S. population as the standard population and two age groups: 65–74 and 75 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 4.3. Percentage of persons aged 6 months and over who received an influenza vaccination during the past 12 months, by age group and race and ethnicity: United States, January–June 2017

Age and race and ethnicity	Percent ¹	95% confidence interval
6 months–17 years, Hispanic or Latino	50.2	45.31–55.04
6 months–17 years, not Hispanic or Latino, single race, white	45.5	42.96–48.00
6 months–17 years, not Hispanic or Latino, single race, black	43.2	37.91–48.65
18 and over, Hispanic or Latino	36.7	34.16–39.31
18 and over, not Hispanic or Latino, single race, white	47.4	46.28–48.59
18 and over, not Hispanic or Latino, single race, black	36.3	33.49–39.22

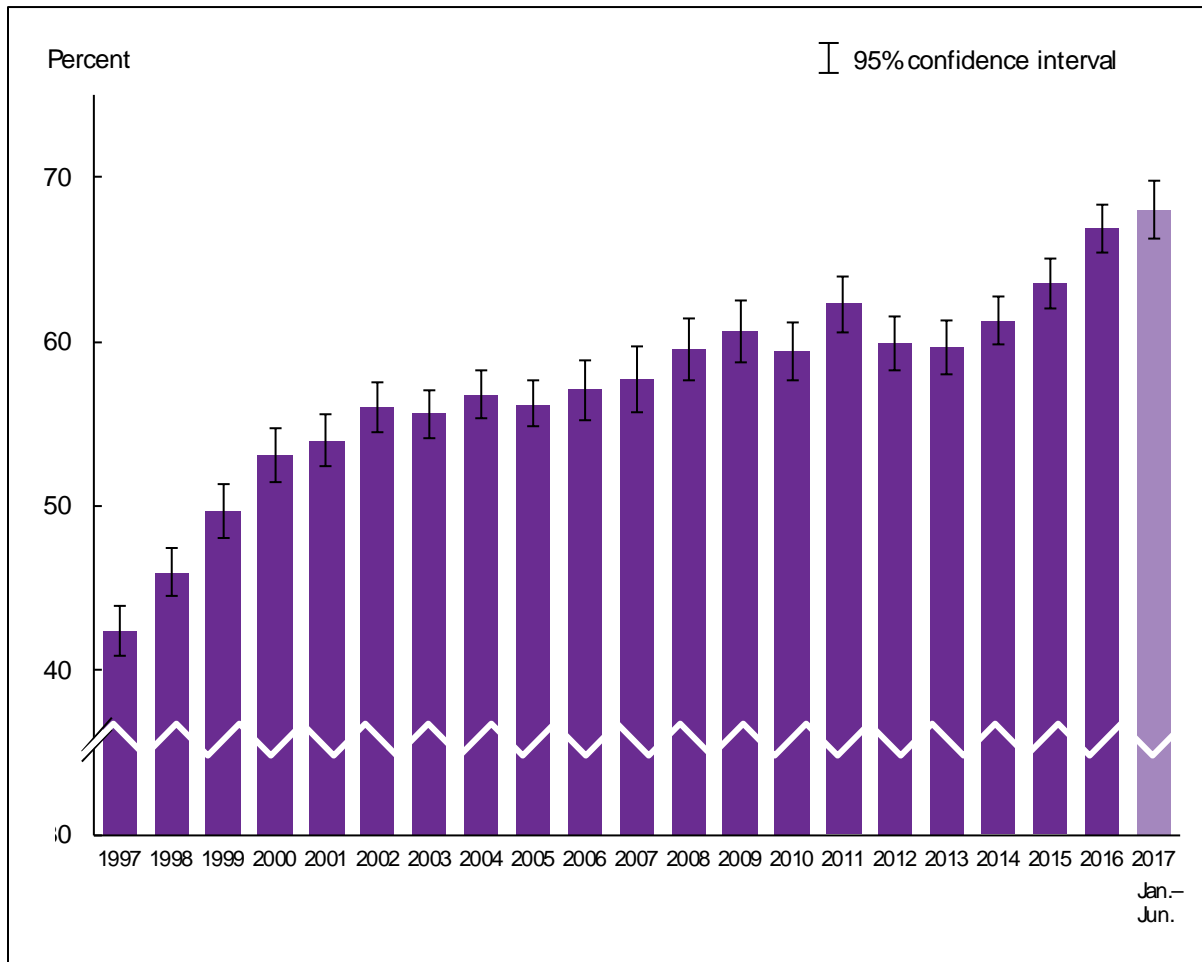
¹Crude estimates are presented.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Receipt of pneumococcal vaccination

Figure 5.1. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination: United States, 1997– June 2017

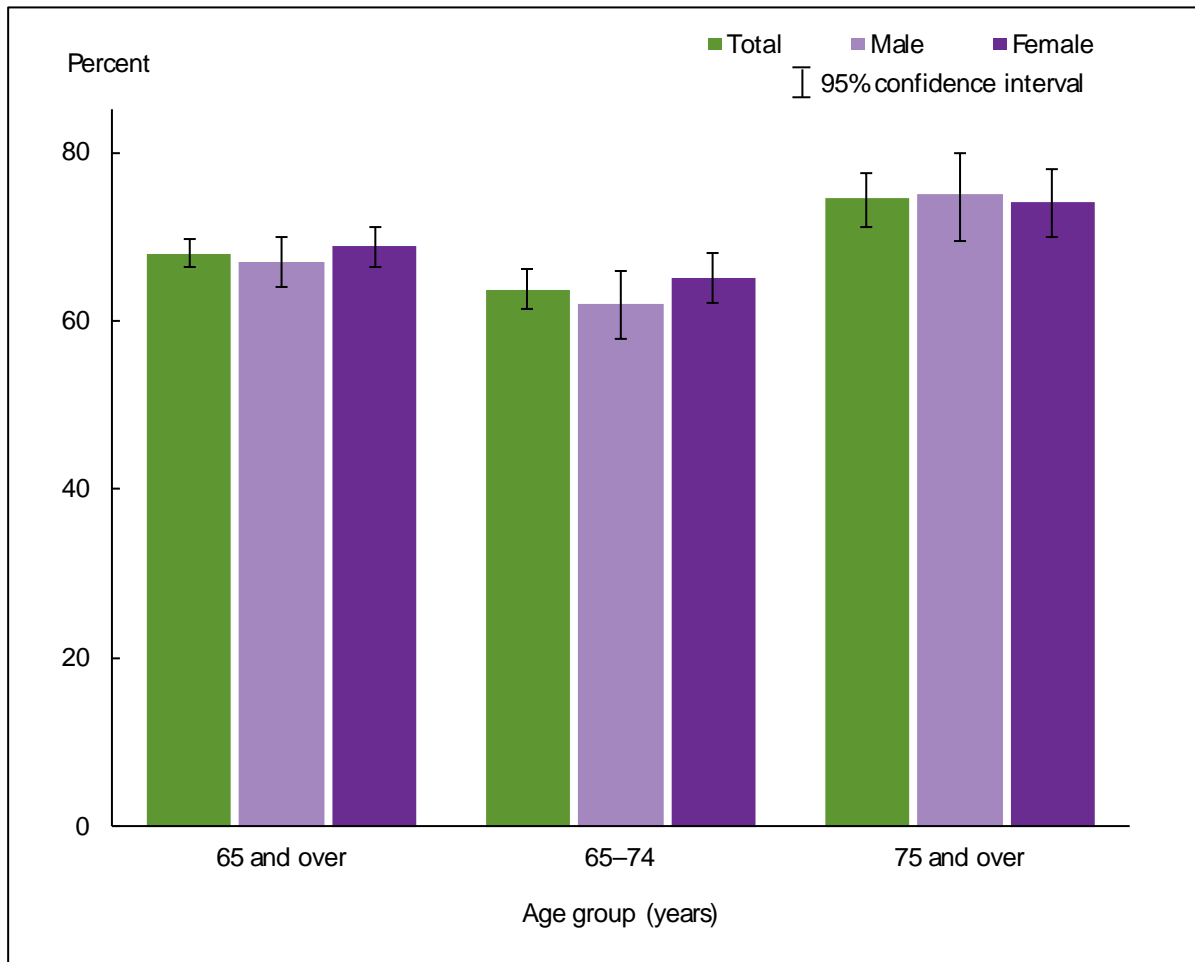


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude those with unknown pneumococcal vaccination status (about 5% of respondents each year). Advisory Committee on Immunization Practices recommendations regarding who should receive pneumococcal vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (see <https://www.cdc.gov/vaccines/vpd/pneumo/index.html>). Of particular note, beginning in 2014, all adults aged 65 and over are recommended to receive both the 13-valent pneumococcal conjugate vaccine (PCV13) and the 23-valent pneumococcal polysaccharide vaccine (PPSV23) in series (9–11). The NHIS question on receipt of pneumococcal vaccination does not distinguish the type of vaccine received. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, the percentage of adults aged 65 and over who had ever received a pneumococcal vaccination was 68.0% (95% confidence interval = 66.28%–69.76%), which was higher than but not significantly different from, the 2016 estimate of 66.9%.
- The percentage of adults aged 65 and over who had ever received a pneumococcal vaccination increased from 42.4% in 1997 to 53.1% in 2000, and then increased more slowly to 59.7% in 2013. The percentage of adults aged 65 and over who had ever received a pneumococcal vaccination again increased more rapidly, from 59.7% in 2013 to 68.0% in January–June 2017.

Figure 5.2. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination, by age group and sex: United States, January–June 2017

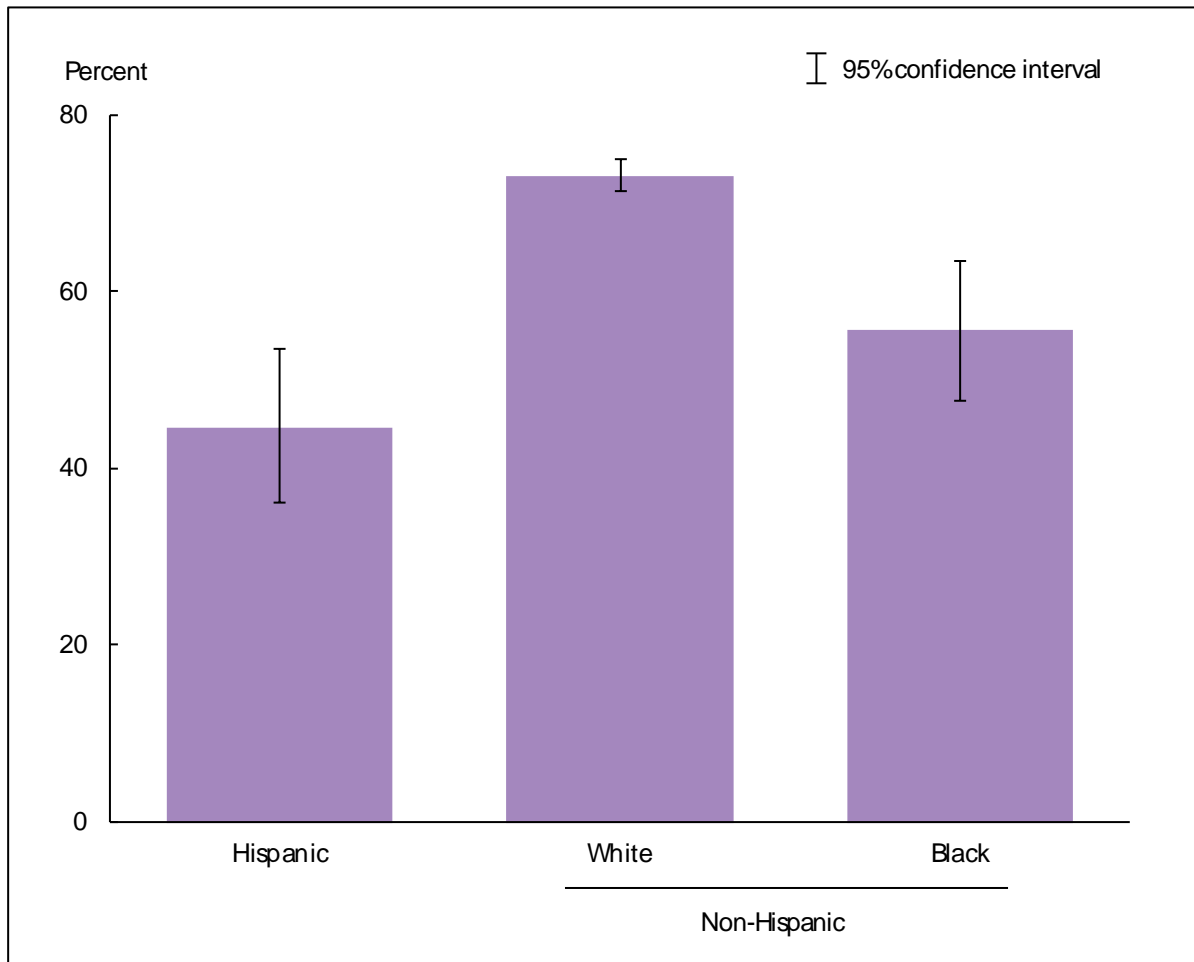


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude the 3.7% of adults aged 65 and over with unknown pneumococcal vaccination status. Advisory Committee on Immunization Practices recommendations regarding who should receive pneumococcal vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (see <https://www.cdc.gov/vaccines/vpd/pneumo/index.html>). Of particular note, beginning in 2014, all adults aged 65 and over are recommended to receive both the 13-valent pneumococcal conjugate vaccine (PCV13) and the 23-valent pneumococcal polysaccharide vaccine (PPSV23) in series (9–11). The NHIS question on receipt of pneumococcal vaccination does not distinguish the type of vaccine received. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, the percentage of adults by age group who had ever received a pneumococcal vaccination was 63.7% for persons aged 65–74 and 74.5%, for persons aged 75 and over.
- For both sexes combined, adults aged 75 and over were more likely than those aged 65–74 to have ever received a pneumococcal vaccination. This pattern held for males and females.
- There was no significant difference in the prevalence of ever receiving a pneumococcal vaccination between men and women in any age group.

Figure 5.3. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude the 3.7% of adults aged 65 and over with unknown pneumococcal vaccination status. Advisory Committee on Immunization Practices recommendations regarding who should receive pneumococcal vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (see <https://www.cdc.gov/vaccines/vpd/pneumo/index.html>). Of particular note, beginning in 2014, all adults aged 65 and over are recommended to receive both the 13-valent pneumococcal conjugate vaccine (PCV13) and the 23-valent pneumococcal polysaccharide vaccine (PPSV23) in series (9–11). The NHIS question on receipt of pneumococcal vaccination does not distinguish the type of vaccine received. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The percentage of adults aged 65 and over by race and ethnicity who had ever received a pneumococcal vaccination was 44.7% for Hispanic persons, 73.1% for non-Hispanic white persons, and 55.7% for non-Hispanic black persons.
- Of the three race and ethnicity groups, non-Hispanic white adults were more likely to have ever received a pneumococcal vaccination than non-Hispanic black and Hispanic adults.

Data tables for Figures 5.1–5.3:**Data table for Figure 5.1. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination: United States, 1997– June 2017**

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	42.4 (40.9–43.9)	42.6 (41.1–44.1)
1998	46.0 (44.5–47.5)	46.3 (44.8–47.8)
1999	49.7 (48.1–51.3)	49.9 (48.3–51.5)
2000	53.1 (51.5–54.7)	53.4 (51.8–55.0)
2001	54.0 (52.4–55.6)	54.2 (52.6–55.7)
2002	56.0 (54.5–57.5)	56.2 (54.8–57.7)
2003	55.6 (54.1–57.1)	55.7 (54.2–57.1)
2004	56.8 (55.3–58.3)	57.0 (55.5–58.5)
2005	56.2 (54.82–57.64)	56.3 (54.95–57.72)
2006	57.1 (55.25–58.88)	57.2 (55.43–59.04)
2007	57.7 (55.68–59.69)	57.8 (55.78–59.80)
2008	59.6 (57.68–61.48)	59.8 (57.98–61.64)
2009	60.6 (58.74–62.51)	61.0 (59.15–62.79)
2010	59.4 (57.61–61.17)	59.8 (58.02–61.51)
2011	62.3 (60.55–63.95)	62.7 (61.04–64.31)
2012	59.9 (58.29–61.49)	60.4 (58.86–62.01)
2013	59.7 (58.02–61.36)	60.4 (58.77–62.05)
2014	61.3 (59.88–62.80)	62.3 (60.82–63.70)
2015	63.5 (62.00–65.05)	64.1 (62.59–65.57)
2016	66.9 (65.47–68.38)	67.7 (66.30–69.14)
January–June 2017	68.0 (66.28–69.76)	68.8 (67.02–70.63)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and two age groups: 65–74 and 75 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 5.2. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
65–74, total	63.7	61.31–66.08
65–74, male	62.0	57.92–65.97
65–74, female	65.1	62.19–68.01
75 and over, total	74.5	71.20–77.52
75 and over, male	74.9	69.37–79.94
75 and over, female	74.1	69.95–77.94
65 and over (crude ¹), total	68.0	66.28–69.76
65 and over (crude ¹), male	67.1	64.06–69.97
65 and over (crude ¹), female	68.8	66.49–71.09
65 and over (age-adjusted ²), total	68.8	67.02–70.63
65 and over (age-adjusted ²), male	68.2	65.04–71.20
65 and over (age-adjusted ²), female	69.4	67.02–71.73

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and two age groups: 65–74 and 75 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 5.3. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
Hispanic or Latino	44.7 (36.21–53.44)	46.2 (37.29–55.22)
Not Hispanic or Latino, single race, white	73.1 (71.35–74.88)	73.8 (71.96–75.50)
Not Hispanic or Latino, single race, black	55.7 (47.69–63.55)	57.6 (50.31–64.63)

¹Crude estimates are presented.

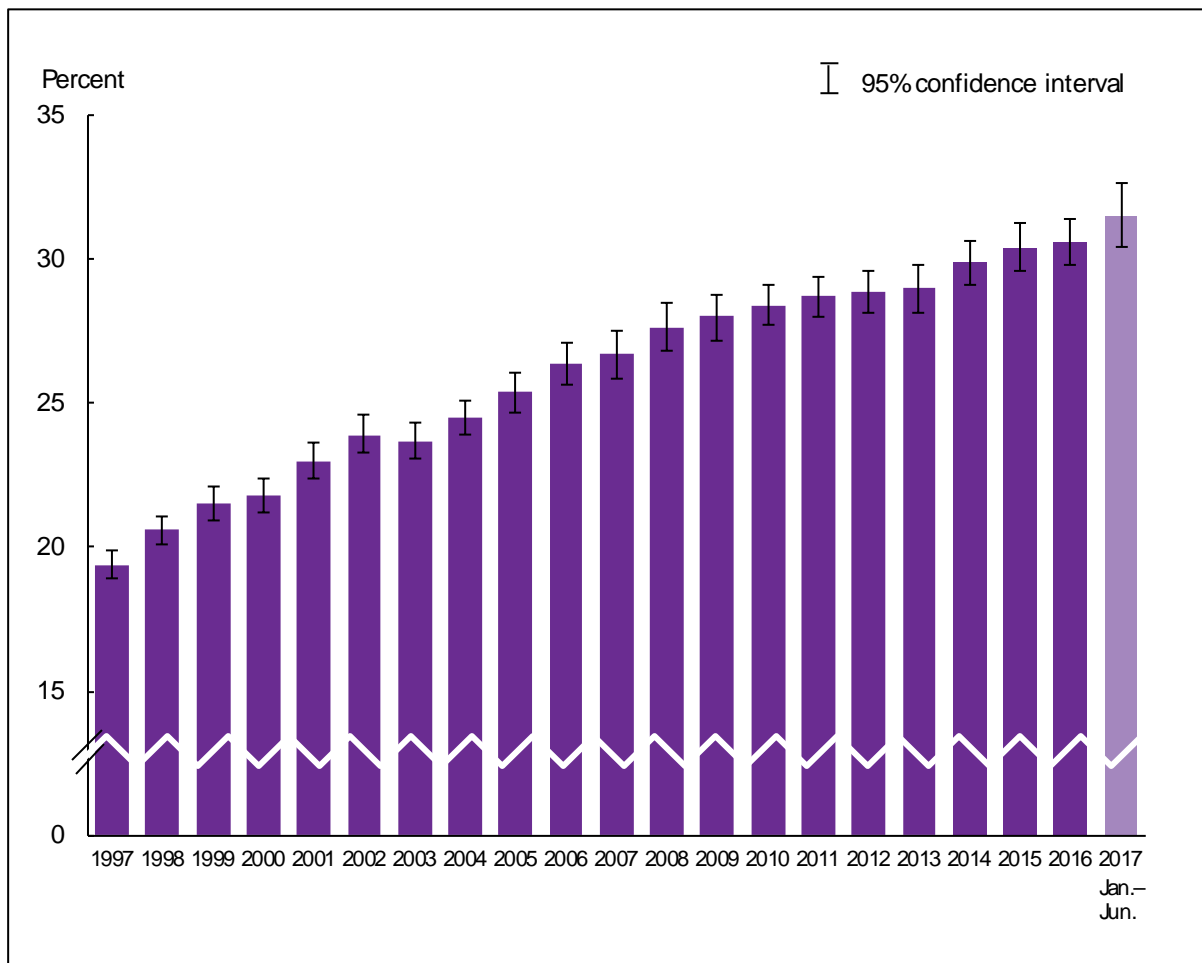
²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and two age groups: 65–74 and 75 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Obesity

Figure 6.1. Prevalence of obesity among adults aged 20 and over: United States, 1997– June 2017

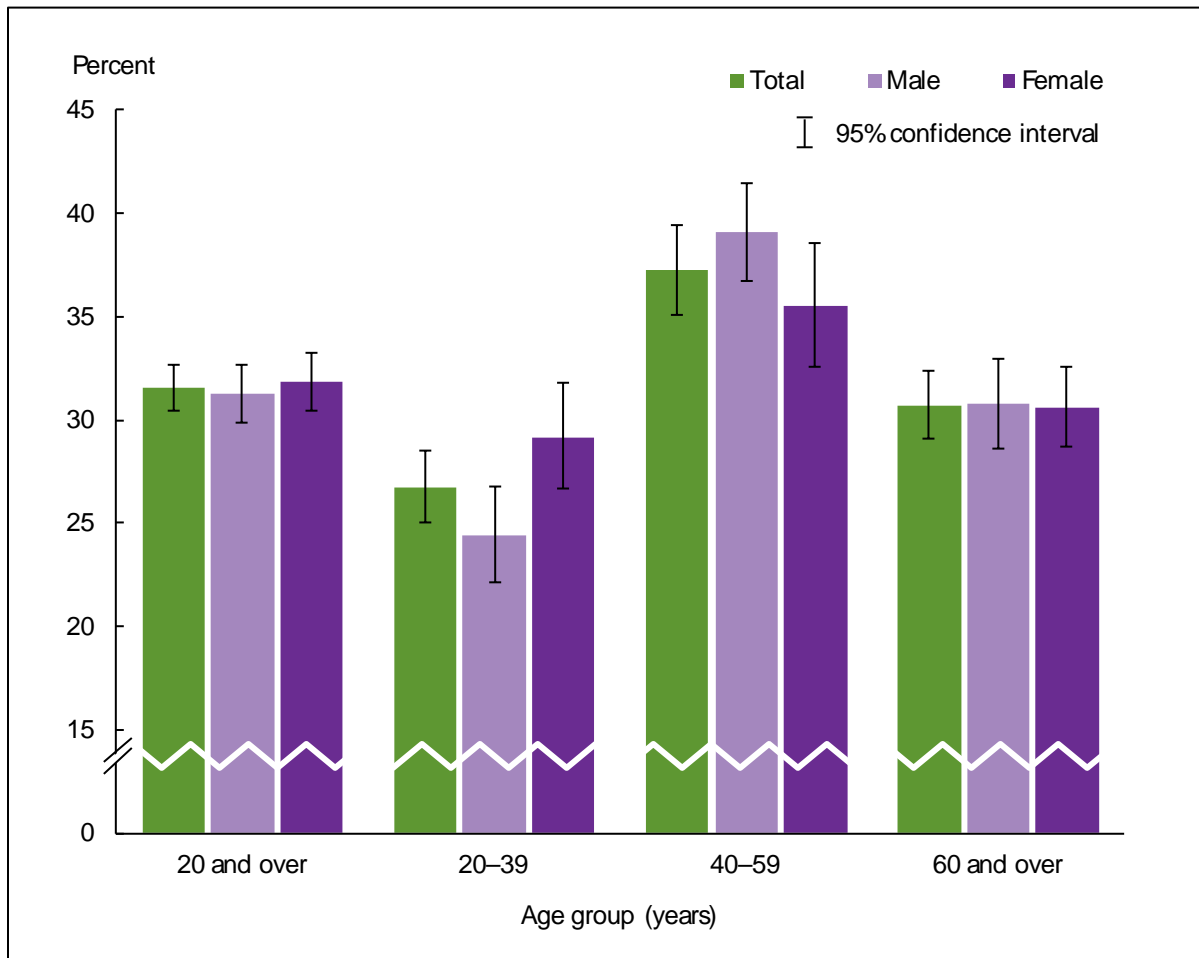


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Obesity is defined as a body mass index of 30 kg/m² or more. The measure is based on self-reported height (m) and weight (kg). Estimates of obesity are restricted to adults aged 20 and over for consistency with the Healthy People 2020 (3) initiative. The analyses excluded people with unknown height or weight (about 6% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, 31.5% (95% confidence interval = 30.46%–32.65%) of U.S. adults aged 20 and over were obese. This was higher than, but not significantly different from, the 2016 estimate of 30.6%.
- The prevalence of obesity among U.S. adults aged 20 and over increased, from 19.4% in 1997 to 31.5% in January–June 2017.

Figure 6.2. Prevalence of obesity among adults aged 20 and over, by age group and sex: United States, January–June 2017

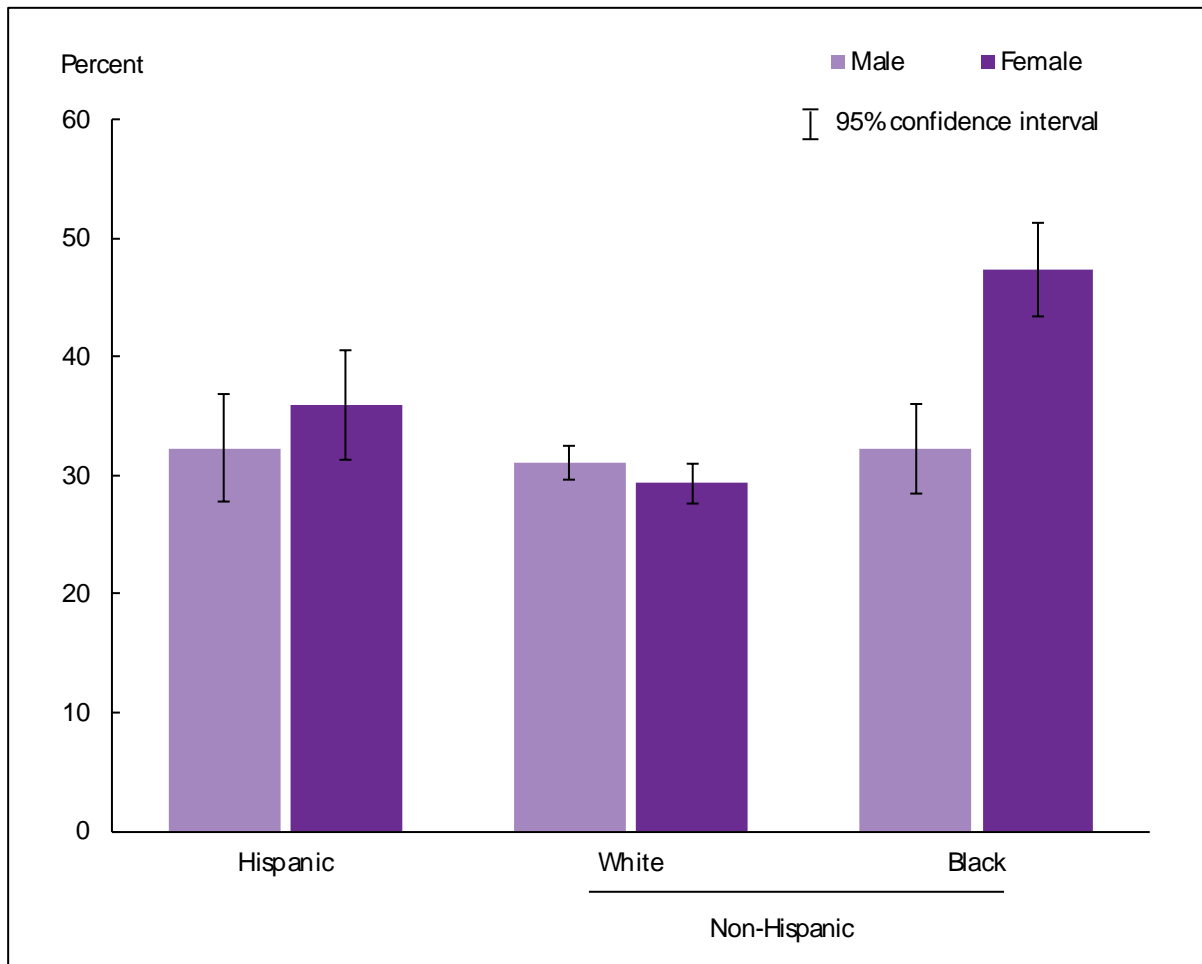


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Obesity is defined as a body mass index of 30 kg/m² or more. The measure is based on self-reported height (m) and weight (kg). Estimates of obesity are restricted to adults aged 20 and over for consistency with the Healthy People 2020 (3) initiative. The analyses exclude the 3.8% of persons with unknown height or weight. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, the prevalence of obesity was higher among adults aged 40–59 (37.3%), compared with adults aged 60 and over (30.7%) and those aged 20–39 (26.8%). This pattern held for males and females.
- For the age group 20–39, the prevalence of obesity was higher among women than among men (29.2% vs. 24.4%).

Figure 6.3. Age-adjusted prevalence of obesity among adults aged 20 and over, by sex and race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Obesity is defined as a body mass index of 30 kg/m² or more. The measure is based on self-reported height (m) and weight (kg). Estimates of obesity are restricted to adults aged 20 and over for consistency with the Healthy People 2020 (3) initiative. The analyses exclude the 3.6% of persons with unknown height or weight. Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 20–24, 25–34, 35–44, 45–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- Non-Hispanic black women (47.4%) were most likely to be obese, compared with Hispanic women (35.9%) and non-Hispanic white women (29.4%).
- There was no significant difference in the prevalence of obesity by race and ethnicity groups among men.

Data tables for Figures 6.1–6.3:**Data table for Figure 6.1. Prevalence of obesity among adults aged 20 and over: United States, 1997– June 2017**

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	19.4 (18.9–19.9)	19.5 (18.9–20.0)
1998	20.6 (20.1–21.1)	20.6 (20.0–21.1)
1999	21.5 (20.9–22.1)	21.5 (20.9–22.1)
2000	21.8 (21.2–22.4)	21.8 (21.2–22.3)
2001	23.0 (22.4–23.6)	22.9 (22.3–23.5)
2002	23.9 (23.3–24.6)	23.8 (23.2–24.5)
2003	23.7 (23.1–24.3)	23.5 (22.9–24.2)
2004	24.5 (23.9–25.1)	24.3 (23.8–25.0)
2005	25.4 (24.77–26.09)	25.3 (24.66–25.96)
2006	26.4 (25.62–27.09)	26.2 (25.44–26.90)
2007	26.7 (25.82–27.50)	26.6 (25.78–27.49)
2008	27.6 (26.80–28.50)	27.5 (26.69–28.36)
2009	28.0 (27.20–28.76)	27.9 (27.13–28.71)
2010	28.4 (27.74–29.09)	28.3 (27.58–28.94)
2011	28.7 (28.01–29.42)	28.7 (27.96–29.35)
2012	28.9 (28.14–29.61)	28.7 (27.94–29.43)
2013	29.0 (28.13–29.78)	28.9 (28.06–29.78)
2014	29.9 (29.13–30.65)	29.8 (28.98–30.52)
2015	30.4 (29.62–31.27)	30.2 (29.40–31.08)
2016	30.6 (29.77–31.37)	30.5 (29.70–31.26)
January–June 2017	31.5 (30.46–32.65)	31.7 (30.53–32.84)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and seven age groups: 20–29, 30–39, 40–49, 50–59, 60–69, 70–79, and 80 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 6.2. Prevalence of obesity among adults aged 20 and over, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
20–39, total	26.8	25.02–28.55
20–39, male	24.4	22.14–26.75
20–39, female	29.2	26.64–31.84
40–59, total	37.3	35.08–39.47
40–59, male	39.1	36.75–41.49
40–59, female	35.5	32.55–38.55
60 and over, total	30.7	29.10–32.34
60 and over, male	30.8	28.63–33.01
60 and over, female	30.6	28.69–32.62
20 and over (crude ¹), total	31.5	30.46–32.65
20 and over (crude ¹), male	31.2	29.88–32.64
20 and over (crude ¹), female	31.8	30.45–33.24
20 and over (age-adjusted ²), total	31.7	30.53–32.84
20 and over (age-adjusted ²), male	31.4	30.05–32.74
20 and over (age-adjusted ²), female	32.0	30.55–33.52

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and seven age groups: 20–29, 30–39, 40–49, 50–59, 60–69, 70–79, and 80 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 6.3. Age-adjusted prevalence of obesity among adults aged 20 and over, by sex and race and ethnicity: United States, January–June 2017

Sex and race and ethnicity	Percent ¹	95% confidence interval
Male, Hispanic or Latino	32.2	27.78–36.82
Male, not Hispanic or Latino, single race, white	31.1	29.58–32.55
Male, not Hispanic or Latino, single race, black	32.2	28.43–36.09
Female, Hispanic or Latino	35.9	31.33–40.58
Female, not Hispanic or Latino, single race, white	29.4	27.70–31.06
Female, not Hispanic or Latino, single race, black	47.4	43.45–51.34

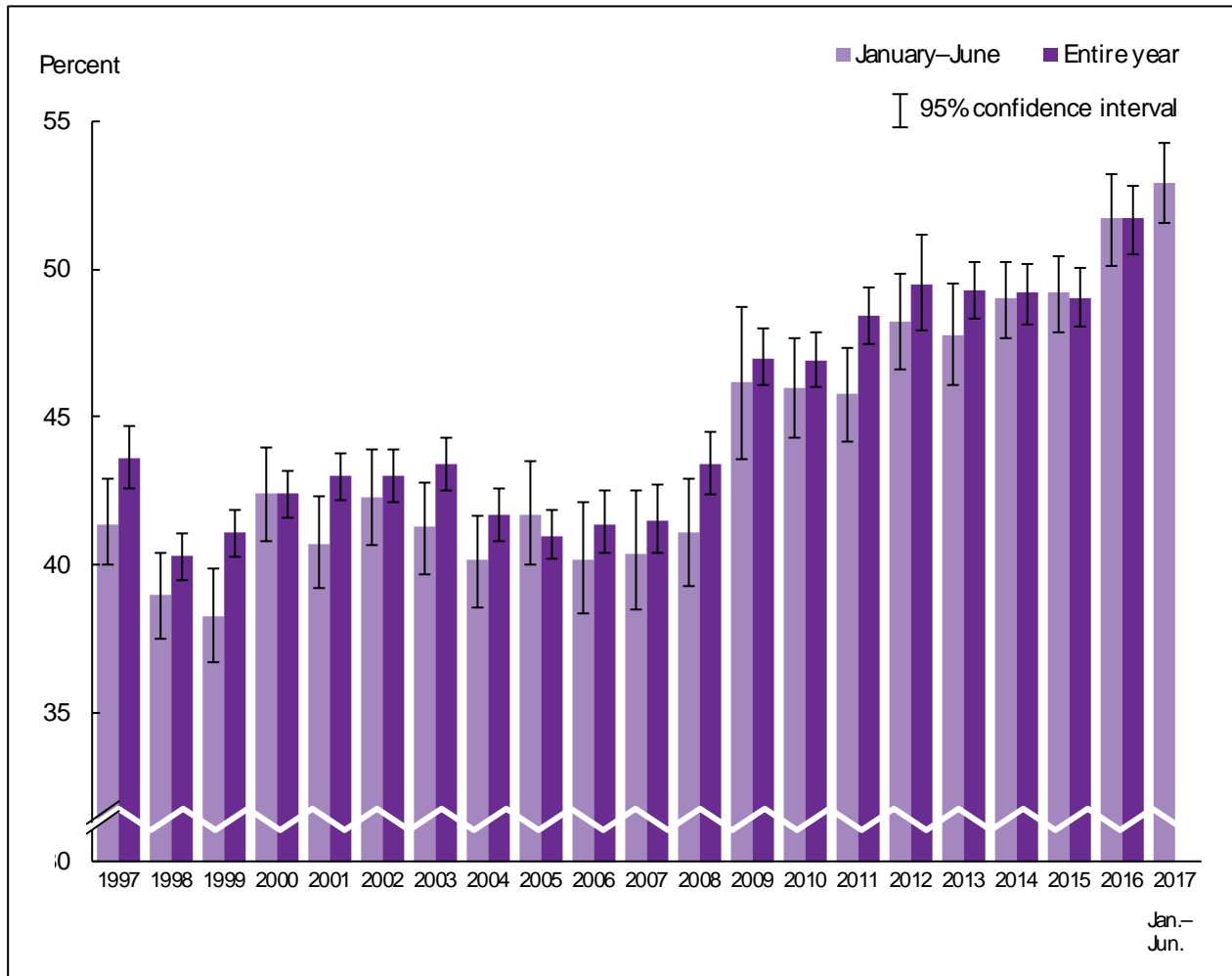
¹Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 20–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Leisure-time physical activity

Figure 7.1. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity: United States, 1997–June 2017

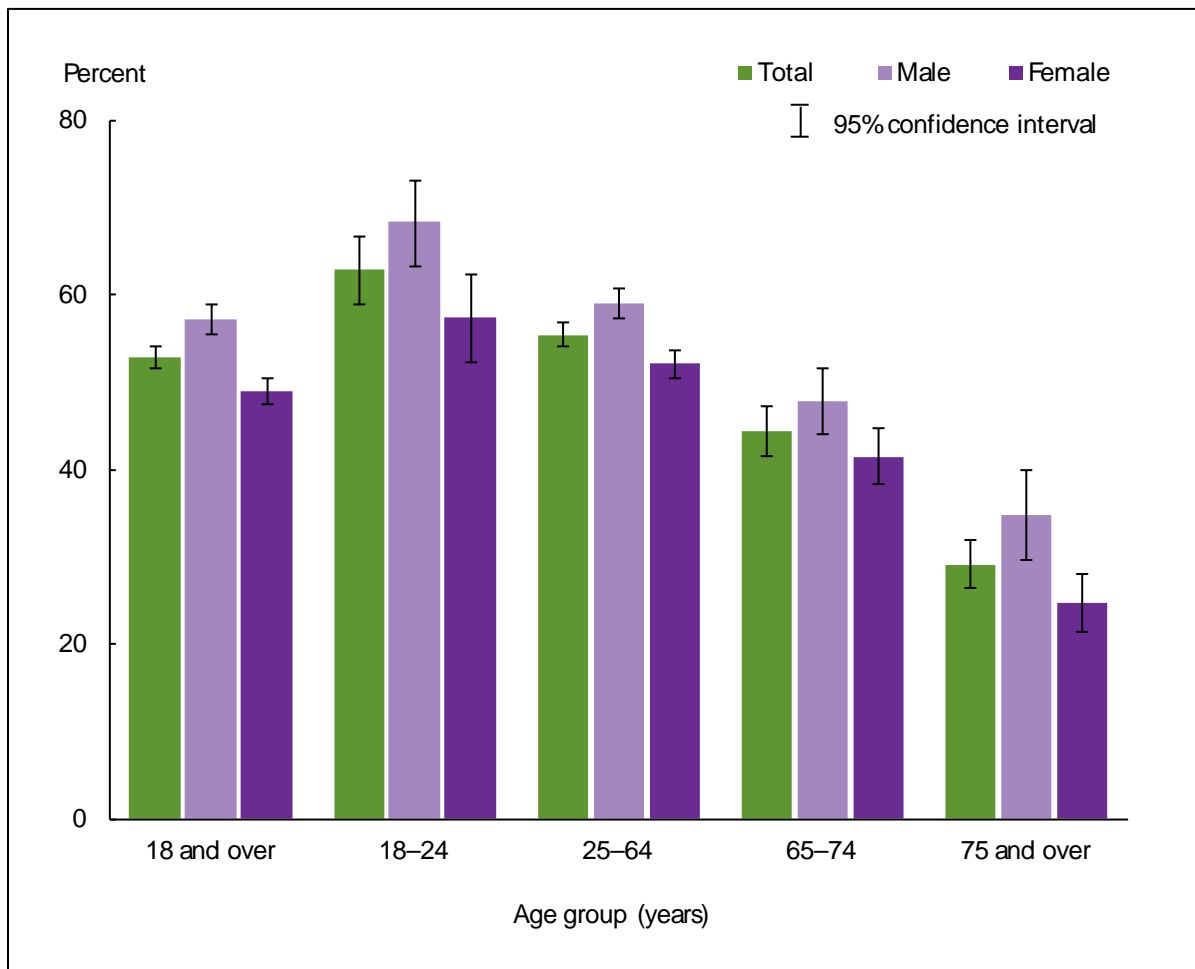


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Estimates in this figure are limited to leisure-time physical activity only. This measure reflects an estimate of leisure-time aerobic activity motivated by the 2008 federal Physical Activity Guidelines for Americans, which are being used for Healthy People 2020 Objectives (3). The 2008 guidelines refer to any kind of aerobic activity, not just leisure-time aerobic activity, so the leisure-time aerobic activity estimates in this figure may underestimate the percentage of adults who met the 2008 guidelines for aerobic activity. This figure presents the percentage of adults who met the 2008 federal guidelines for aerobic activity. The 2008 federal guidelines recommend that for substantial health benefits, adults perform at least 150 minutes a week of moderate-intensity aerobic physical activity, 75 minutes a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. The 2008 guidelines state that aerobic activity should be performed in episodes of at least 10 minutes and preferably should be spread throughout the week. The 2008 guidelines were applied to leisure-time activity data starting with 1997 to derive the aerobic activity estimates in this figure, allowing trend analysis. The analyses exclude persons with unknown physical activity participation (about 3% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, 52.9% (95% confidence interval = 51.53%–54.21%) of U.S. adults aged 18 and over met the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity). This percentage was higher than, but not significantly different from, the January–June 2016 estimate (51.4%).
- The annual percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity) was stable from 1997 through 2006, then increased to 51.7% in 2016.

Figure 7.2. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by age group and sex: United States, January–June 2017

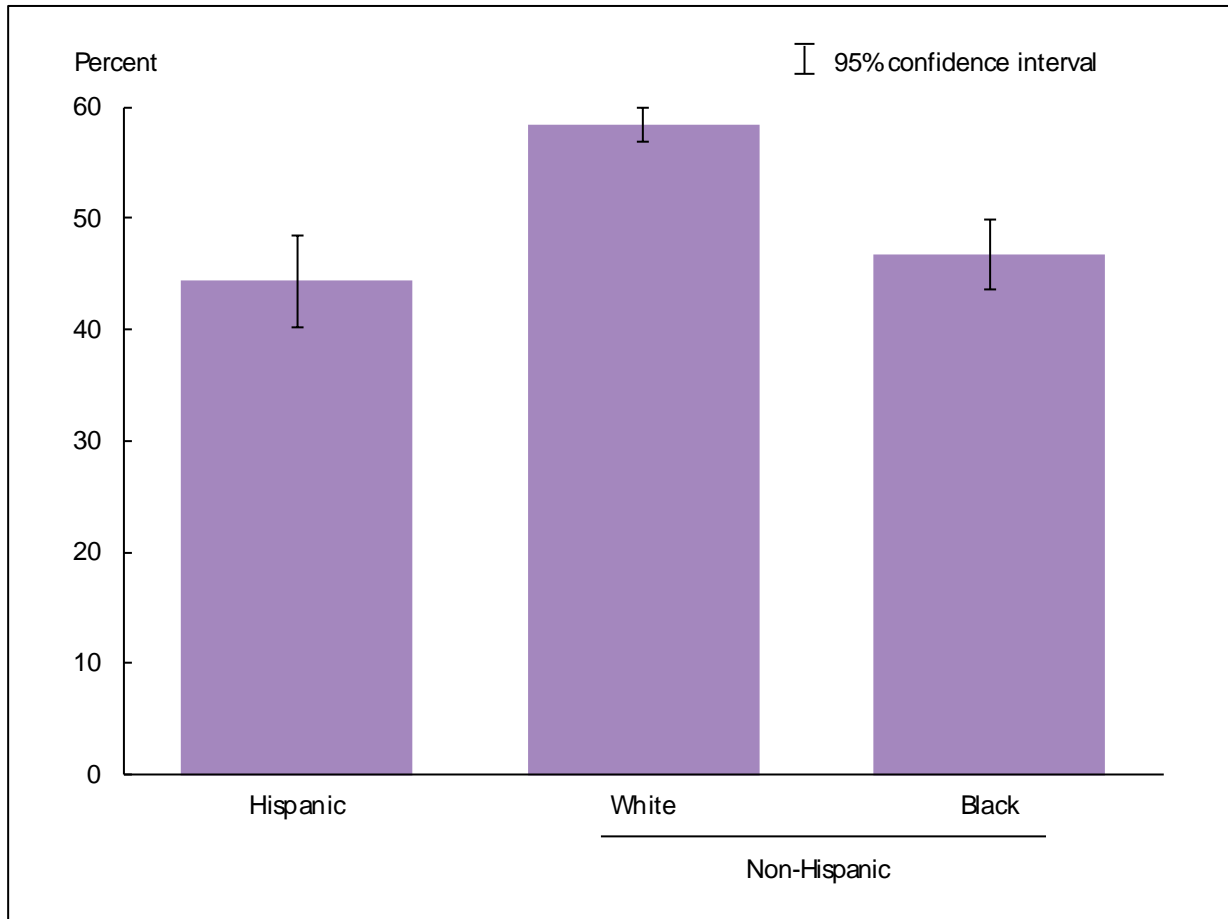


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Estimates in this figure are limited to leisure-time physical activity only. This measure reflects an estimate of leisure-time aerobic activity motivated by the 2008 federal Physical Activity Guidelines for Americans, which are being used for Healthy People 2020 Objectives (3). The 2008 guidelines refer to any kind of aerobic activity, not just leisure-time aerobic activity, so the leisure-time aerobic activity estimates in this figure may underestimate the percentage of adults who met the 2008 guidelines for aerobic activity. This figure presents the percentage of adults who met the 2008 federal guidelines for aerobic activity. The 2008 federal guidelines recommend that for substantial health benefits, adults perform at least 150 minutes a week of moderate-intensity aerobic physical activity, 75 minutes a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. The 2008 guidelines state that aerobic activity should be performed in episodes of at least 10 minutes and preferably should be spread throughout the week. The analyses exclude the 2.0% of persons with unknown physical activity participation. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, as age increased, the percentage of adults who met the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity) decreased. This pattern also held for males and females.
- For adults aged 18 and over, and for age groups 18–24, 25–64, 65–74, and 75 and over, women were less likely than men to meet the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity).

Figure 7.3. Age-sex-adjusted percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by race and ethnicity: United States, January–June 2017

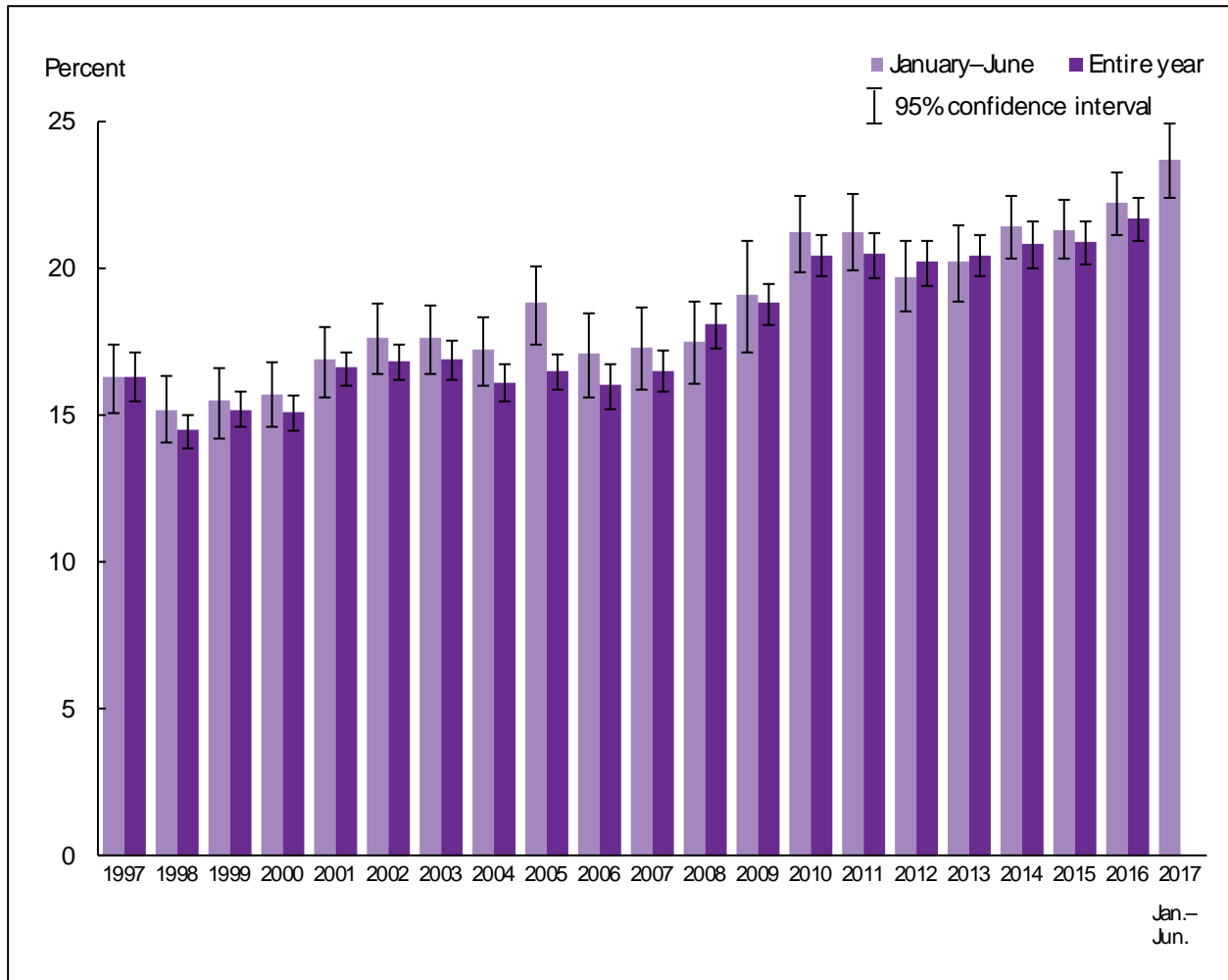


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Estimates in this figure are limited to leisure-time physical activity only. This measure reflects an estimate of leisure-time aerobic activity motivated by the 2008 federal Physical Activity Guidelines for Americans, which are being used for Healthy People 2020 Objectives (3). The 2008 guidelines refer to any kind of aerobic activity, not just leisure-time aerobic activity, so the leisure-time aerobic activity estimates in this figure may underestimate the percentage of adults who met the 2008 guidelines for aerobic activity. This figure presents the percentage of adults who met the 2008 federal guidelines for aerobic activity. The 2008 federal guidelines recommend that for substantial health benefits, adults perform at least 150 minutes a week of moderate-intensity aerobic physical activity, 75 minutes a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. The 2008 guidelines state that aerobic activity should be performed in episodes of at least 10 minutes and preferably should be spread throughout the week. The analyses exclude the 2.0% of persons with unknown physical activity participation. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted percentage of adults by race and ethnicity who met the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity) was 44.4% for Hispanic adults, 58.4% for non-Hispanic white adults, and 46.7% for non-Hispanic black adults.
- Non-Hispanic white adults were more likely to meet the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity) compared with Hispanic adults and non-Hispanic black adults.

Figure 7.4. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities: United States, 1997– June 2017

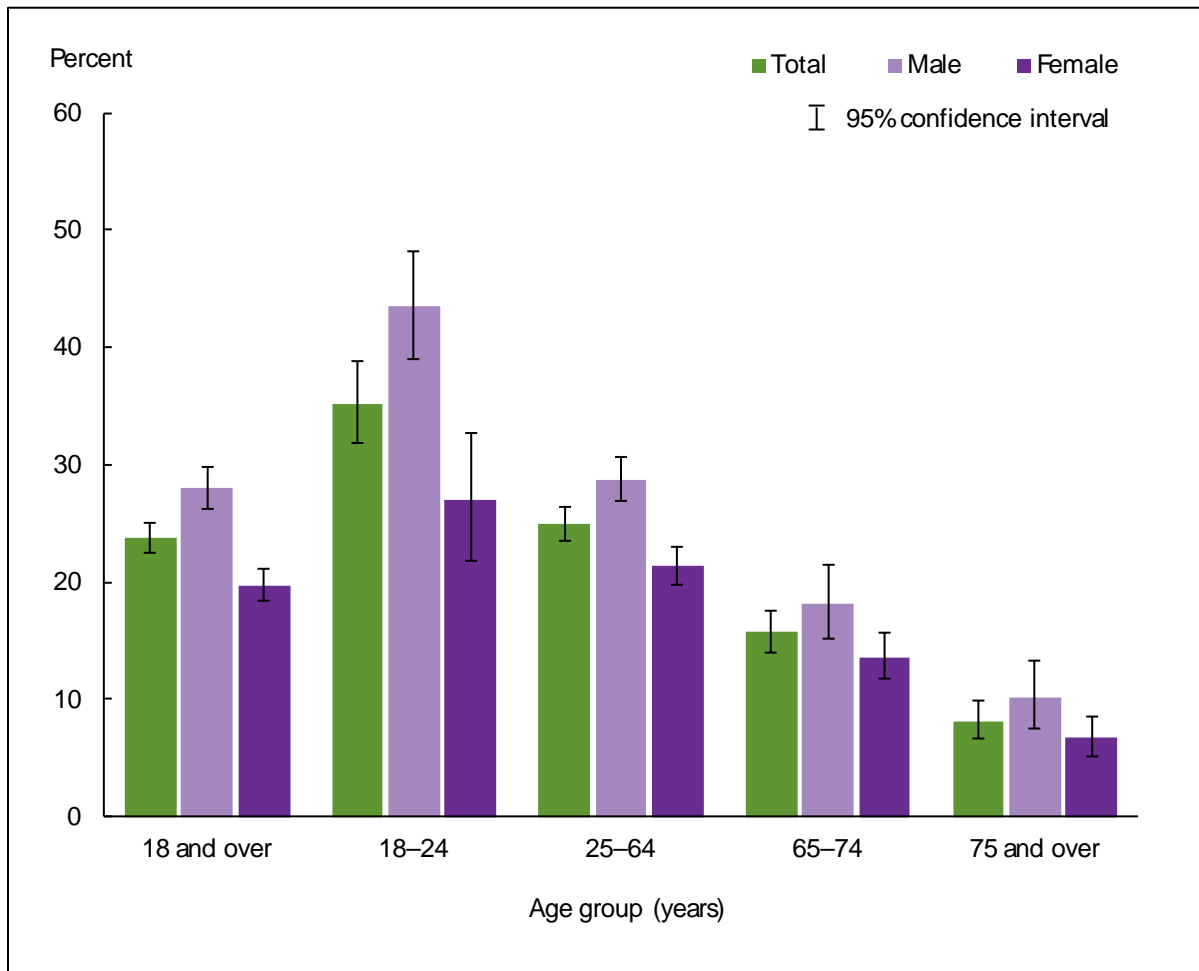


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Estimates in this figure are limited to leisure-time physical activity only. This measure reflects an estimate of leisure-time aerobic and muscle-strengthening activities motivated by the 2008 federal Physical Activity Guidelines for Americans, which are being used for Healthy People 2020 Objectives (3). The 2008 guidelines refer to any kind of aerobic and muscle-strengthening activity, not just leisure-time aerobic and muscle-strengthening activities, so the leisure-time aerobic and muscle-strengthening activity estimates in this figure may underestimate the percentage of adults who met the 2008 guidelines for aerobic and muscle-strengthening activities. This figure presents the percentage of adults who met the 2008 federal guidelines for both aerobic activity and muscle strengthening. The 2008 federal guidelines recommend that for substantial health benefits, adults perform at least 150 minutes a week of moderate-intensity aerobic physical activity, 75 minutes a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. The 2008 guidelines state that aerobic activity should be performed in episodes of at least 10 minutes and preferably should be spread throughout the week. The 2008 guidelines also recommend that adults perform muscle-strengthening activities that are of moderate or high intensity and involve all major muscle groups on 2 or more days a week, because these activities provide additional health benefits. The National Health Interview Survey estimates are based on number of times per week, which may or may not be the same as number of days per week. The 2008 guidelines were applied to both leisure-time activity and muscle-strengthening data starting with 1997 to derive the aerobic activity and muscle-strengthening estimates in this figure, allowing trend analysis. The analyses exclude persons with unknown physical activity participation (about 3% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- In January–June 2017, 23.7% (95% confidence interval = 22.50%–24.99%) of U.S. adults aged 18 and over met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities). This percentage was higher than, but not significantly different from, the January–June 2016 estimate of 22.2%.
- The annual percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) generally increased, from 16.3% in 1997 to 21.7% in 2016.

Figure 7.5. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities, by age group and sex: United States, January–June 2017

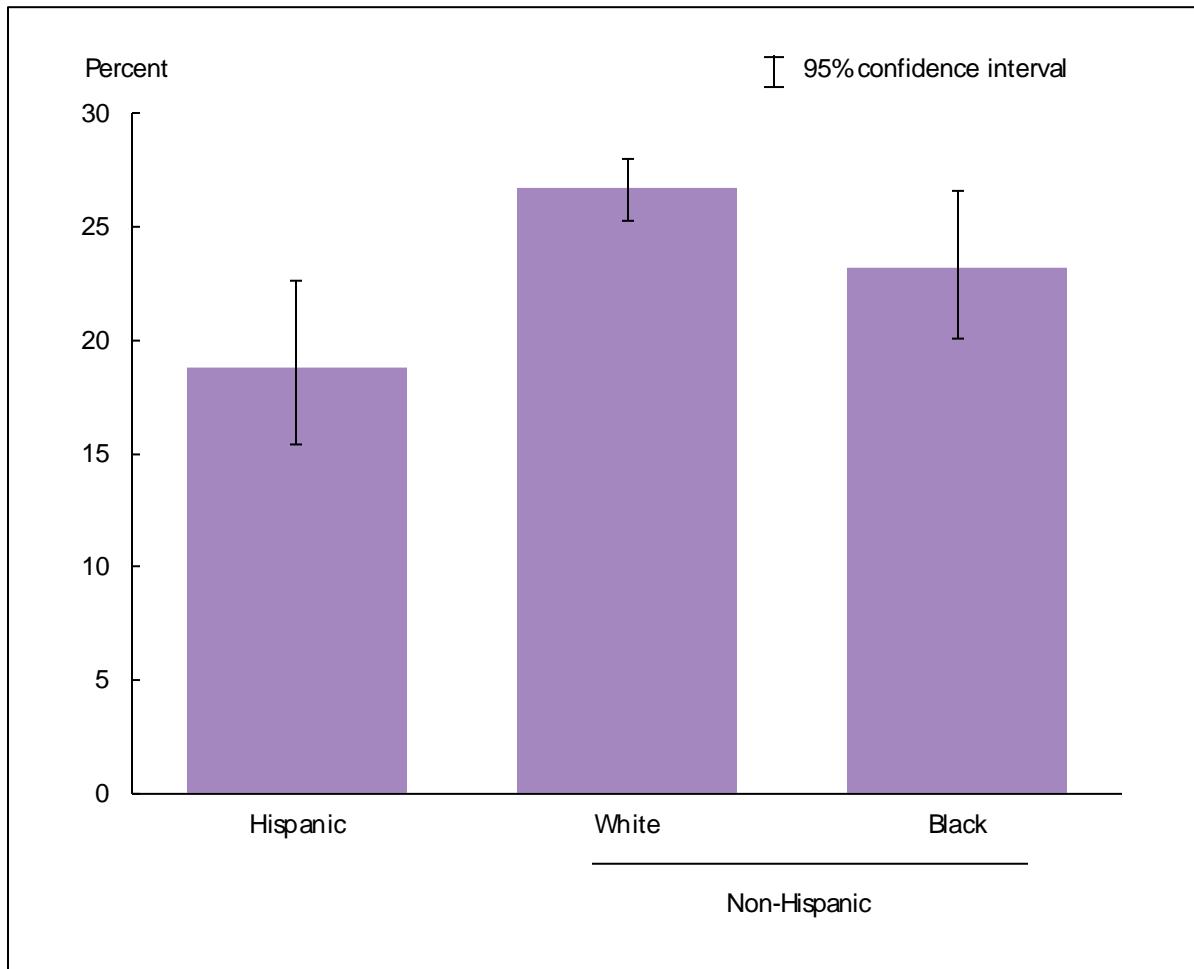


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Estimates in this figure are limited to leisure-time physical activity only. This measure reflects an estimate of leisure-time aerobic and muscle-strengthening activities motivated by the 2008 federal Physical Activity Guidelines for Americans, which are being used for Healthy People 2020 Objectives (3). The 2008 guidelines refer to any kind of aerobic and muscle-strengthening activity, not just leisure-time aerobic and muscle-strengthening activities, so the leisure-time aerobic and muscle-strengthening activity estimates in this figure may underestimate the percentage of adults who met the 2008 guidelines for aerobic and muscle-strengthening activities. This figure presents the percentage of adults who met the 2008 federal guidelines for both aerobic and muscle strengthening activities. The 2008 federal guidelines recommend that for substantial health benefits, adults perform at least 150 minutes a week of moderate-intensity aerobic physical activity, 75 minutes a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. The 2008 guidelines state that aerobic activity should be performed in episodes of at least 10 minutes and preferably should be spread throughout the week. The 2008 guidelines also recommend that adults perform muscle-strengthening activities that are of moderate or high intensity and involve all major muscle groups on 2 or more days a week, because these activities provide additional health benefits. The National Health Interview Survey estimates are based on number of times per week, which may not be the same as number of days per week. The analyses exclude the 2.3% of persons with unknown physical activity participation. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, as age increased, the percentage of adults who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) decreased. This pattern held for males and females.
- For adults aged 18 and over and age groups 18–24, 25–64, 65–74, and 75 and over, women were less likely to meet the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) compared with men.

Figure 7.6. Age-sex-adjusted percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Estimates in this figure are limited to leisure-time physical activity only. This measure reflects an estimate of leisure-time aerobic and muscle-strengthening activities motivated by the 2008 federal Physical Activity Guidelines for Americans, which are being used for Healthy People 2020 Objectives (3). The 2008 guidelines refer to any kind of aerobic and muscle-strengthening activity, not just leisure-time aerobic and muscle-strengthening activities, so the leisure-time aerobic and muscle-strengthening activity estimates in this figure may underestimate the percentage of adults who met the 2008 guidelines for aerobic and muscle-strengthening activities. This figure presents the percentage of adults who met the 2008 federal guidelines for both aerobic and muscle strengthening activities. The 2008 federal guidelines recommend that for substantial health benefits, adults perform at least 150 minutes a week of moderate-intensity aerobic physical activity, 75 minutes a week of vigorous-intensity aerobic physical activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. The 2008 guidelines state that aerobic activity should be performed in episodes of at least 10 minutes and preferably should be spread throughout the week. The 2008 guidelines also recommend that adults perform muscle-strengthening activities that are of moderate or high intensity and involve all major muscle groups on 2 or more days a week, because these activities provide additional health benefits. The National Health Interview Survey estimates are based on number of times per week, which may not be the same as number of days per week. The analyses exclude the 2.3% of persons with unknown physical activity participation. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted percentage of adults by race and ethnicity who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) was 18.8% for Hispanic adults, 26.7% for non-Hispanic white adults, and 23.2% for non-Hispanic black adults.
- Non-Hispanic white adults were more likely to meet the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) compared with non-Hispanic black adults and Hispanic adults.
- There was no significant difference between Hispanic adults and non-Hispanic black adults in meeting the 2008 federal physical activity guidelines.

Data tables for Figures 7.1–7.6:**Data table for Figure 7.1. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for aerobic activity through leisure–time aerobic activity: United States, 1997– June 2017**

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997 yearly	43.6 (42.5–44.6)	43.3 (42.2–44.3)
1997 January–June	43.6 (42.5–44.6)	43.3 (42.2–44.3)
1998 yearly	40.3 (39.5–41.1)	40.1 (39.3–40.9)
1998 January–June	40.5 (39.5–41.6)	40.3 (39.2–41.3)
1999 yearly	41.1 (40.3–41.9)	40.9 (40.2–41.7)
1999 January–June	40.5 (39.4–41.7)	40.3 (39.2–41.5)
2000 yearly	42.4 (41.6–43.2)	42.3 (41.5–43.1)
2000 January–June	43.0 (41.9–44.2)	42.9 (41.8–44.1)
2001 yearly	43.0 (42.2–43.8)	42.9 (42.1–43.7)
2001 January–June	42.9 (41.7–44.0)	42.7 (41.6–43.9)
2002 yearly	43.0 (42.1–43.9)	42.9 (42.1–43.8)
2002 January–June	43.8 (42.6–45.0)	43.7 (42.5–44.9)
2003 yearly	43.4 (42.5–44.3)	43.3 (42.4–44.2)
2003 January–June	43.6 (42.4–44.8)	43.5 (42.3–44.7)
2004 yearly	41.7 (40.8–42.6)	41.6 (40.8–42.5)
2004 January–June	41.7 (40.5–42.9)	41.6 (40.4–42.8)
2005 yearly	41.0 (40.18–41.89)	41.1 (40.21–41.90)
2005 January–June	41.9 (40.76–43.14)	42.0 (40.81–43.14)
2006 yearly	41.4 (40.31–42.42)	41.4 (40.37–42.47)
2006 January–June	41.8 (40.54–43.13)	41.9 (40.58–43.14)
2007 yearly	41.5 (40.36–42.63)	41.5 (40.33–42.59)
2007 January–June	41.0 (39.56–42.38)	40.9 (39.45–42.27)
2008 yearly	43.4 (42.33–44.47)	43.5 (42.43–44.58)
2008 January–June	42.9 (41.57–44.19)	43.0 (41.75–44.36)
2009 yearly	47.0 (46.05–47.95)	47.2 (46.25–48.16)
2009 January–June	42.9 (41.57–44.19)	43.0 (41.75–44.36)
2010 yearly	46.9 (45.96–47.78)	47.1 (46.20–47.98)
2010 January–June	47.4 (46.19–48.62)	47.6 (46.36–48.75)
2011 yearly	48.4 (47.42–49.30)	48.7 (47.76–49.61)
2011 January–June	48.2 (47.02–49.37)	48.5 (47.36–49.64)
2012 yearly	49.5 (48.51–50.49)	49.9 (48.92–50.87)
2012 January–June	49.7 (48.46–50.90)	50.1 (48.86–51.26)
2013 yearly	49.3 (48.38–50.28)	49.9 (48.95–50.84)
2013 January–June	49.0 (47.78–50.13)	49.6 (48.43–50.76)
2014 yearly	49.2 (48.21–50.24)	49.8 (48.78–50.82)
2014 January–June	49.0 (47.73–50.31)	49.6 (48.33–50.94)
2015 yearly	49.0 (47.98–49.95)	49.7 (48.72–50.69)
2015 January–June	49.2 (47.96–50.54)	50.0 (48.70–51.29)
2016 yearly	51.7 (50.57–52.87)	52.5 (51.29–53.61)
2016 January–June	51.4 (49.89–53.00)	52.2 (50.68–53.76)
2017 January–June	52.9 (51.53–54.21)	53.9 (52.51–55.23)

¹Crude estimates are presented.

²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 7.2. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–24, total	62.8	58.95–66.59
18–24, male	68.3	63.18–73.11
18–24, female	57.4	52.20–62.41
25–64, total	55.4	54.07–56.77
25–64, male	59.0	57.28–60.62
25–64, female	52.1	50.37–53.73
65–74, total	44.4	41.57–47.28
65–74, male	47.9	44.06–51.67
65–74, female	41.5	38.33–44.70
75 and over, total	29.1	26.39–31.83
75 and over, male	34.7	29.74–39.99
75 and over, female	24.7	21.51–28.11
18 and over (crude ¹), total	52.9	51.53–54.21
18 and over (crude ¹), male	57.1	55.39–58.79
18 and over (crude ¹), female	48.9	47.39–50.50
18 and over (age-adjusted ²), total	53.9	52.51–55.23
18 and over (age-adjusted ²), male	57.9	56.15–59.63
18 and over (age-adjusted ²), female	50.1	48.52–51.69

¹Crude estimates are presented.

²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 7.3. Adjusted percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Age-sex-adjusted ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
Hispanic or Latino	44.4 (40.30–48.51)	44.4 (40.37–48.55)
Not Hispanic or Latino, single race, white	58.4 (56.92–59.88)	58.5 (56.98–59.96)
Not Hispanic or Latino, single race, black	46.7 (43.62–49.84)	46.1 (42.47–49.75)

¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 7.4. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997 yearly	16.3 (15.5–17.1)	16.1 (15.3–16.9)
1997 January–June	16.3 (15.5–17.1)	16.1 (15.3–16.9)
1998 yearly	14.5 (14.0–15.1)	14.4 (13.9–14.9)
1998 January–June	15.0 (14.3–15.8)	14.8 (14.1–15.6)
1999 yearly	15.2 (14.6–15.8)	15.0 (14.5–15.6)
1999 January–June	15.3 (14.5–16.2)	15.2 (14.4–16.0)
2000 yearly	15.1 (14.5–15.7)	15.0 (14.5–15.6)
2000 January–June	15.2 (14.5–16.0)	15.1 (14.4–15.9)
2001 yearly	16.6 (16.1–17.2)	16.5 (16.0–17.1)
2001 January–June	17.3 (16.5–18.1)	17.2 (16.4–18.0)
2002 yearly	16.8 (16.2–17.4)	16.7 (16.2–17.3)
2002 January–June	17.8 (16.9–18.7)	17.7 (16.9–18.6)
2003 yearly	16.9 (16.3–17.6)	16.9 (16.3–17.5)
2003 January–June	17.8 (16.9–18.7)	17.7 (16.9–18.6)
2004 yearly	16.1 (15.5–16.7)	16.1 (15.5–16.7)
2004 January–June	16.7 (15.8–17.6)	16.7 (15.9–17.5)
2005 yearly	16.5 (15.96–17.13)	16.6 (15.99–17.14)
2005 January–June	17.8 (16.92–18.71)	17.8 (16.96–18.68)
2006 yearly	16.0 (15.30–16.80)	16.1 (15.37–16.87)
2006 January–June	16.7 (15.75–17.61)	16.7 (15.82–17.65)
2007 yearly	16.5 (15.79–17.19)	16.5 (15.83–17.20)
2007 January–June	16.4 (15.46–17.38)	16.4 (15.46–17.36)
2008 yearly	18.1 (17.38–18.91)	18.2 (17.49–19.00)
2008 January–June	17.9 (16.99–18.91)	18.0 (17.09–18.99)
2009 yearly	18.8 (18.14–19.56)	19.0 (18.32–19.75)
2009 January–June	19.3 (18.14–20.45)	19.4 (18.28–20.60)
2010 yearly	20.4 (19.69–21.06)	20.6 (19.90–21.25)
2010 January–June	20.8 (19.89–21.79)	21.0 (20.08–21.95)
2011 yearly	20.5 (19.79–21.31)	20.8 (20.05–21.56)
2011 January–June	21.1 (20.20–22.06)	21.4 (20.48–22.28)
2012 yearly	20.2 (19.45–20.99)	20.6 (19.79–21.31)
2012 January–June	20.0 (19.06–20.84)	20.3 (19.41–21.16)
2013 yearly	20.4 (19.65–21.10)	20.7 (19.99–21.45)
2013 January–June	20.4 (19.41–21.35)	20.7 (19.76–21.71)
2014 yearly	20.8 (20.01–21.60)	21.2 (20.43–22.06)
2014 January–June	21.4 (20.31–22.50)	21.9 (20.77–22.98)
2015 yearly	20.9 (20.20–21.66)	21.4 (20.69–22.17)
2015 January–June	21.3 (20.26–22.30)	21.7 (20.70–22.80)
2016 yearly	21.7 (21.00–22.47)	22.3 (21.56–23.06)
2016 January–June	22.2 (21.12–23.30)	22.8 (21.72–23.97)
2017 January–June	23.7 (22.50–24.99)	24.6 (23.29–25.84)

¹Crude estimates are presented.²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 7.5. Percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–24, total	35.2	31.79–38.76
18–24, male	43.5	38.99–48.16
18–24, female	27.0	21.80–32.71
25–64, total	25.0	23.60–26.38
25–64, male	28.8	26.92–30.67
25–64, female	21.4	19.80–22.99
65–74, total	15.7	13.94–17.58
65–74, male	18.1	15.11–21.49
65–74, female	13.6	11.73–15.69
75 and over, total	8.2	6.69–9.93
75 and over, male	10.1	7.48–13.33
75 and over, female	6.7	5.15–8.57
18 and over (crude ¹), total	23.7	22.50–24.99
18 and over (crude ¹), male	28.0	26.28–29.77
18 and over (crude ¹), female	19.8	18.39–21.20
18 and over (age-adjusted ²), total	24.6	23.29–25.84
18 and over (age-adjusted ²), male	28.8	27.01–30.56
18 and over (age-adjusted ²), female	20.5	19.12–22.02

¹Crude estimates are presented.

²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 7.6. Adjusted percentage of adults aged 18 and over who met 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Age-sex-adjusted ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
Hispanic or Latino	18.8 (15.38–22.63)	18.9 (15.37–22.77)
Not Hispanic or Latino, single race, white	26.7 (25.29–28.05)	26.7 (25.29–28.08)
Not Hispanic or Latino, single race, black	23.2 (20.10–26.57)	22.5 (19.13–26.18)

¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

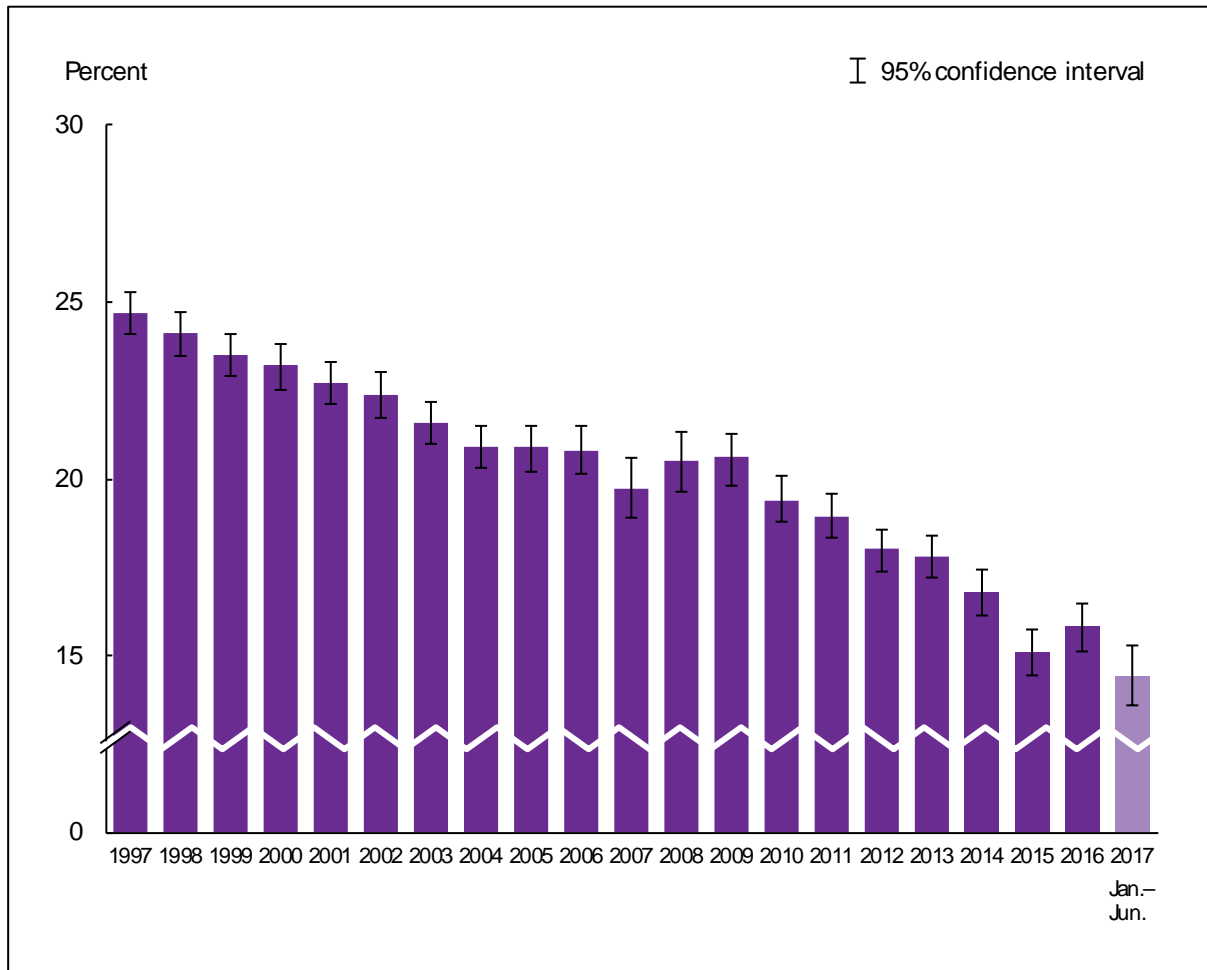
²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Current smoking

Figure 8.1. Prevalence of current cigarette smoking among adults aged 18 and over: United States, 1997– June 2017

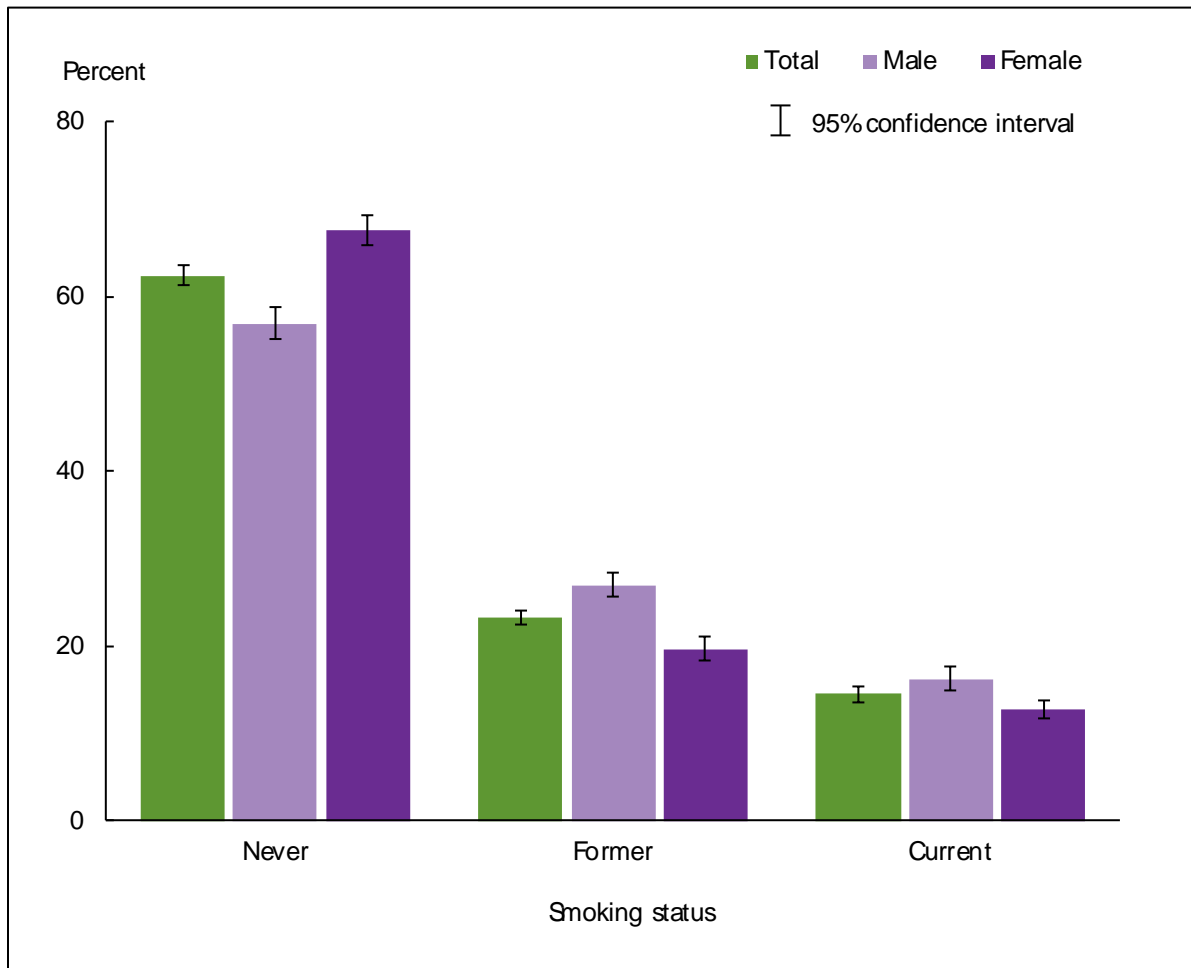


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Current cigarette smokers were defined as those who had smoked more than 100 cigarettes in their lifetime and now smoke every day or some days. The analyses exclude persons with unknown cigarette smoking status (about 2% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, the percentage of adults aged 18 and over who were current cigarette smokers was 14.4% (95% confidence interval = 13.61%–15.30%), which was lower than the 2016 estimate of 15.8%.
- The prevalence of current cigarette smoking among U.S. adults declined from 24.7% in 1997 to 14.4% in January–June 2017.

Figure 8.2. Percent distribution of cigarette smoking status among adults aged 18 and over, by sex: United States, January–June 2017

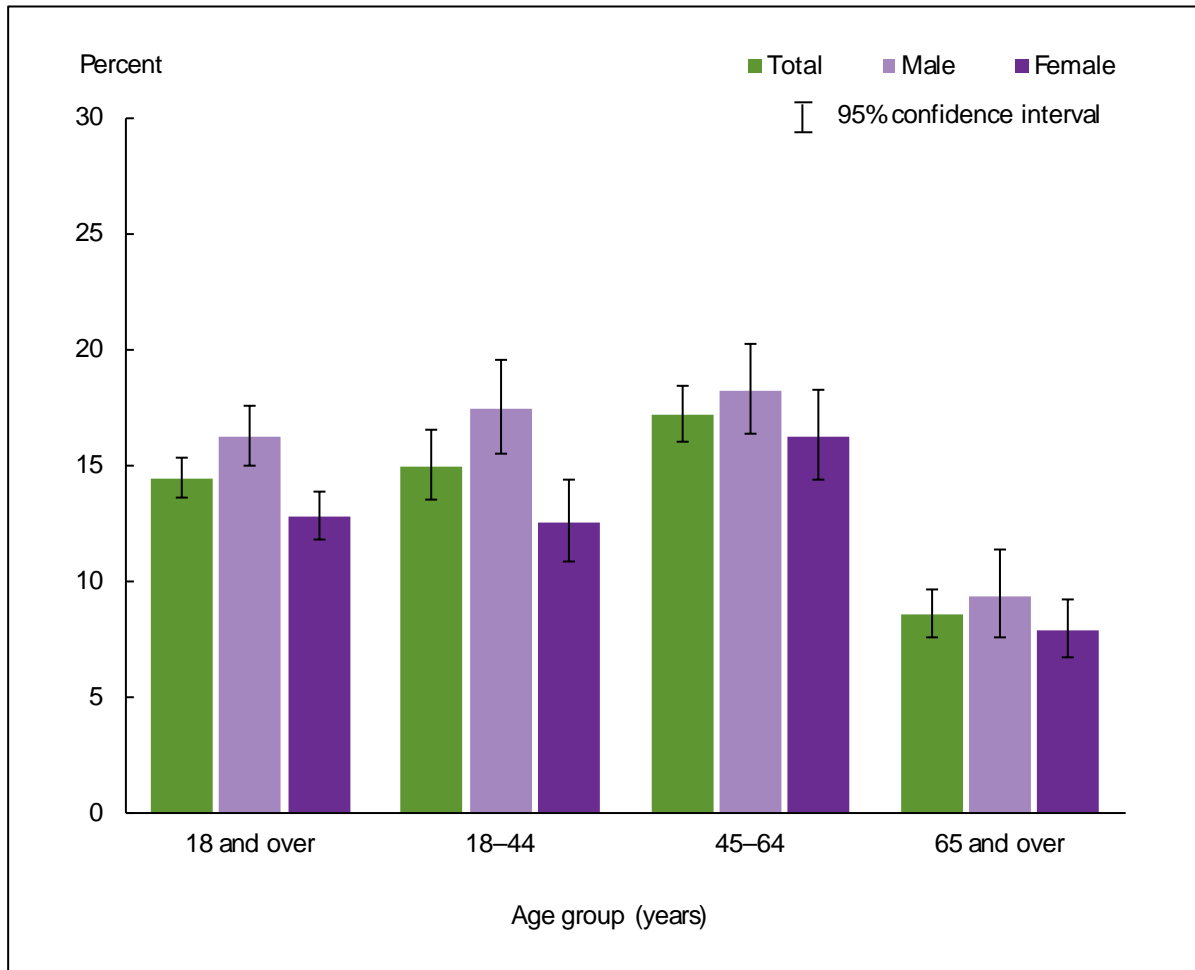


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Current cigarette smokers were defined as those who had smoked more than 100 cigarettes in their lifetime and now smoke every day or some days. The analyses exclude the 0.5% of persons with unknown smoking status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The percentage of current cigarette smokers was higher for men (16.2%) than for women (12.8%).
- The percentage of former cigarette smokers was higher for men (26.9%) than for women (19.6%).
- The percentage of those who had never smoked cigarettes was higher for women (67.6%) than for men (56.8%).

Figure 8.3. Prevalence of current cigarette smoking among adults aged 18 and over, by age group and sex: United States, January–June 2017

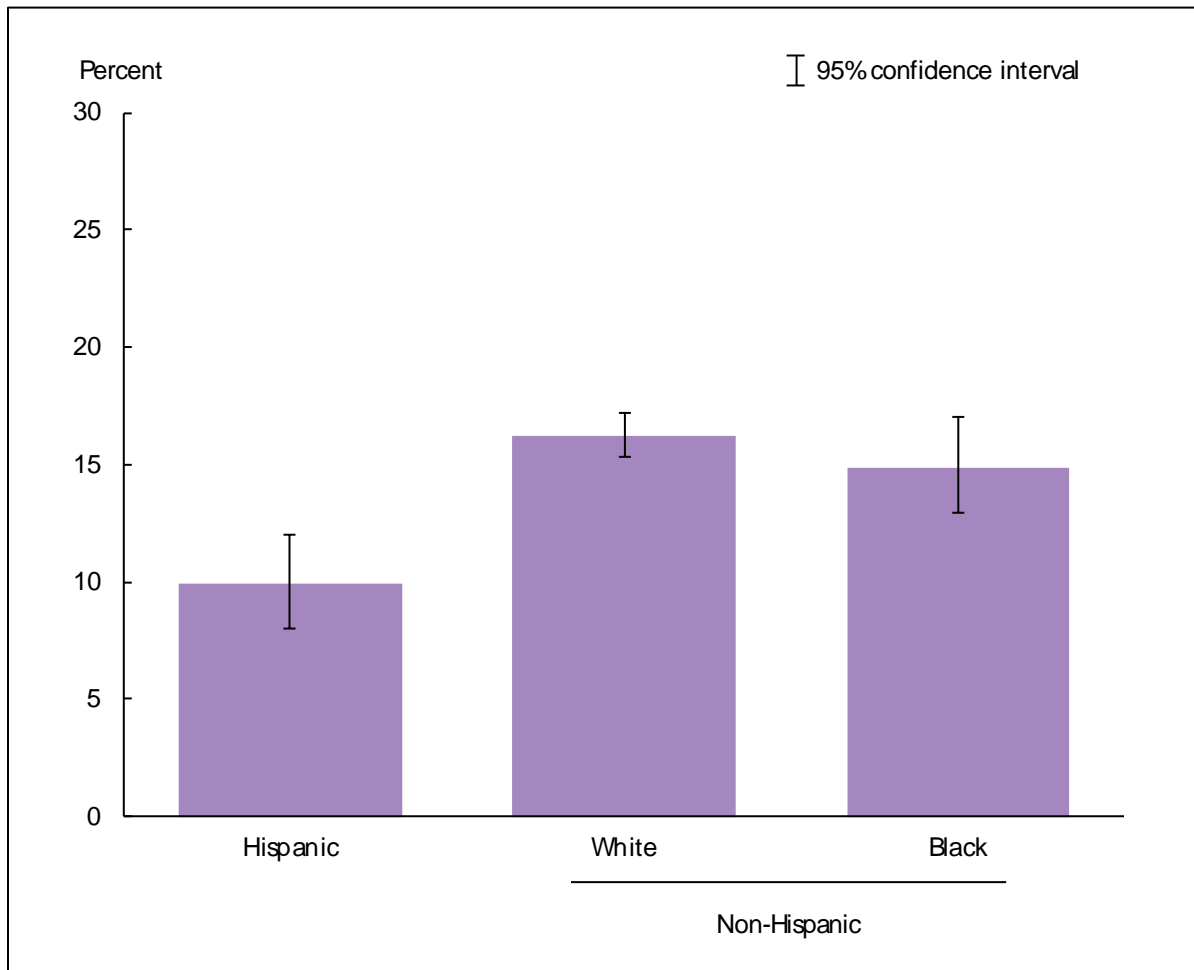


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Current cigarette smokers were defined as those who had smoked more than 100 cigarettes in their lifetime and now smoke every day or some days. The analyses exclude the 0.5% of persons with unknown cigarette smoking status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, the percentage of adults who were current cigarette smokers by age group was lower among adults aged 65 and over (8.5%) than among those aged 18–44 (15.0%) and 45–64 (17.2%). This pattern in current cigarette smoking by age group was observed in both men and women.
- For adults aged 18 and over and age group 18–44, men were more likely than women to be current cigarette smokers.

Figure 8.4. Age-sex-adjusted prevalence of current cigarette smoking among adults aged 18 and over, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Current cigarette smokers were defined as those who had smoked more than 100 cigarettes in their lifetime and now smoke every day or some days. The analyses exclude the 0.5% of persons with unknown cigarette smoking status. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted prevalence of current cigarette smoking by race and ethnicity was 9.9% for Hispanic adults, 16.2% for non-Hispanic white adults, and 14.9% for non-Hispanic black adults.
- Hispanic adults were less likely to be current cigarette smokers compared with non-Hispanic black adults and non-Hispanic white adults.

Data tables for Figures 8.1–8.4:

Data table for Figure 8.1. Prevalence of current cigarette smoking among adults aged 18 and over: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	24.7 (24.1–25.3)	24.6 (24.0–25.1)
1998	24.1 (23.5–24.7)	24.0 (23.4–24.6)
1999	23.5 (22.9–24.1)	23.3 (22.7–24.0)
2000	23.2 (22.5–23.8)	23.1 (22.5–23.7)
2001	22.7 (22.1–23.3)	22.6 (22.0–23.2)
2002	22.4 (21.7–23.0)	22.3 (21.7–22.9)
2003	21.6 (21.0–22.2)	21.5 (20.9–22.1)
2004	20.9 (20.3–21.5)	20.8 (20.2–21.4)
2005	20.9 (20.28–21.52)	20.8 (20.20–21.44)
2006	20.8 (20.14–21.51)	20.8 (20.09–21.43)
2007	19.7 (18.91–20.59)	19.7 (18.83–20.48)
2008	20.5 (19.65–21.30)	20.4 (19.59–21.21)
2009	20.6 (19.83–21.27)	20.6 (19.86–21.28)
2010	19.4 (18.76–20.10)	19.4 (18.71–20.07)
2011	18.9 (18.32–19.55)	18.9 (18.29–19.53)
2012	18.0 (17.40–18.56)	18.1 (17.49–18.66)
2013	17.8 (17.21–18.41)	17.9 (17.29–18.53)
2014	16.8 (16.14–17.45)	17.0 (16.37–17.71)
2015	15.1 (14.46–15.72)	15.3 (14.63–15.94)
2016	15.8 (15.11–16.45)	16.0 (15.27–16.67)
January–June 2017	14.4 (13.61–15.30)	14.6 (13.72–15.49)

¹Crude estimates are presented.

²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 8.2. Percent distribution of cigarette smoking status among adults aged 18 and over, by sex: United States, January–June 2017

Smoking status and sex	Percent	95% confidence interval
Never, total	62.4	61.28–63.51
Never, male	56.8	55.01–58.67
Never, female	67.6	65.79–69.30
Former, total	23.2	22.32–24.02
Former, male	26.9	25.61–28.30
Former, female	19.6	18.38–20.96
Current, total	14.4	13.61–15.30
Current, male	16.2	14.94–17.55
Current, female	12.8	11.79–13.84

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 8.3. Prevalence of current cigarette smoking among adults aged 18 and over, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–44, total	15.0	13.51–16.53
18–44, male	17.5	15.50–19.57
18–44, female	12.5	10.82–14.39
45–64, total	17.2	16.01–18.46
45–64, male	18.2	16.34–20.26
45–64, female	16.2	14.34–18.29
65 and over, total	8.5	7.53–9.60
65 and over, male	9.3	7.56–11.34
65 and over, female	7.9	6.67–9.22
18 and over (crude ¹), total	14.4	13.61–15.30
18 and over (crude ¹), male	16.2	14.94–17.55
18 and over (crude ¹), female	12.8	11.79–13.84
18 and over (age-adjusted ²), total	14.6	13.72–15.49
18 and over (age-adjusted ²), male	16.4	15.04–17.75
18 and over (age-adjusted ²), female	12.9	11.85–13.97

¹Crude estimates are presented.

²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 8.4. Age-sex-adjusted prevalence of current cigarette smoking among adults aged 18 and over, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Age-sex-adjusted ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
Hispanic or Latino	9.9 (8.00–12.02)	9.9 (8.03–12.11)
Not Hispanic or Latino, single race, white	16.2 (15.29–17.20)	16.2 (15.29–17.21)
Not Hispanic or Latino, single race, black	14.9 (12.95–17.03)	14.7 (12.70–16.94)

¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

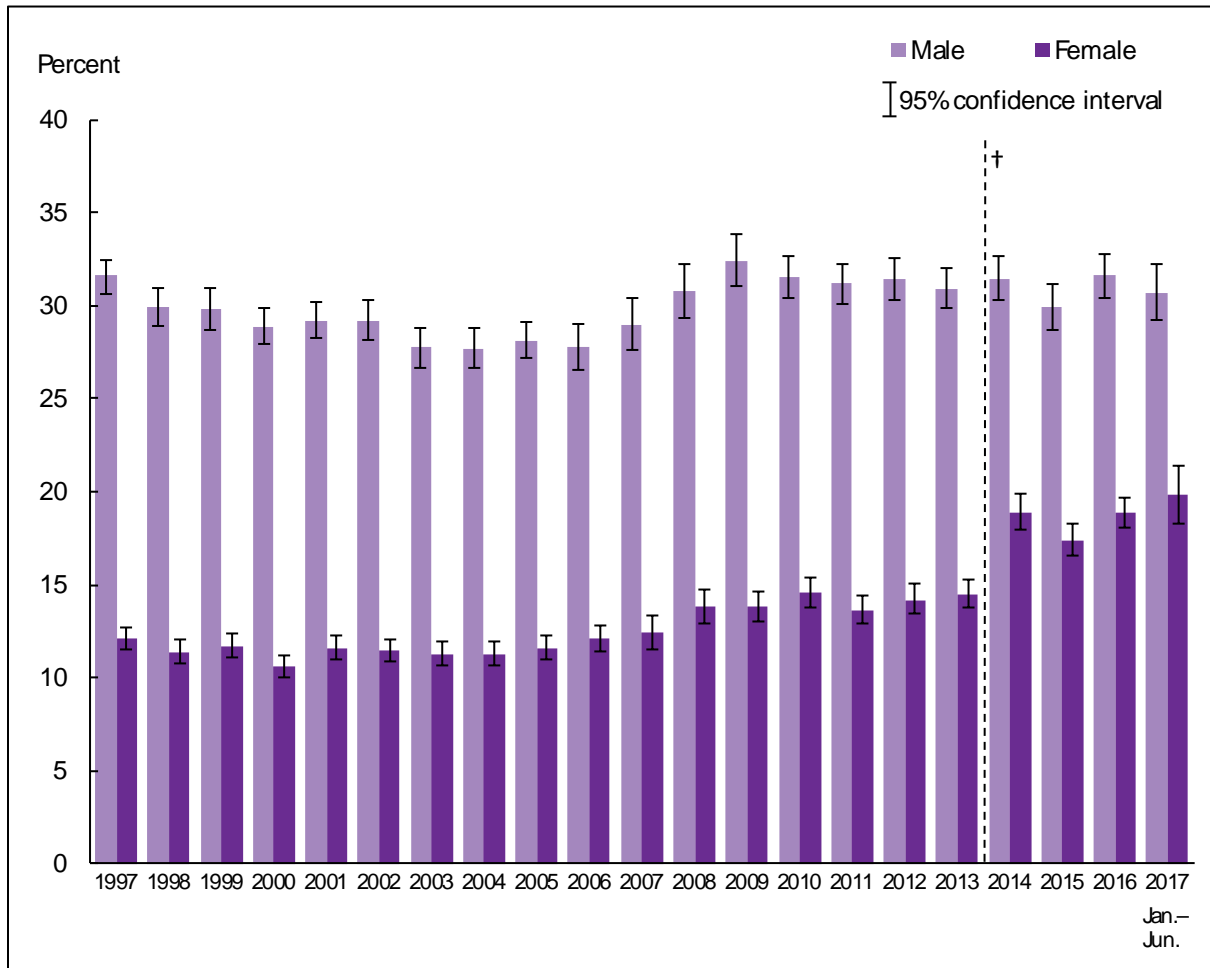
²Estimates for this Healthy People 2020 Leading Health Indicator are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Alcohol consumption

Figure 9.1. Percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year, by sex: United States, 1997– June 2017



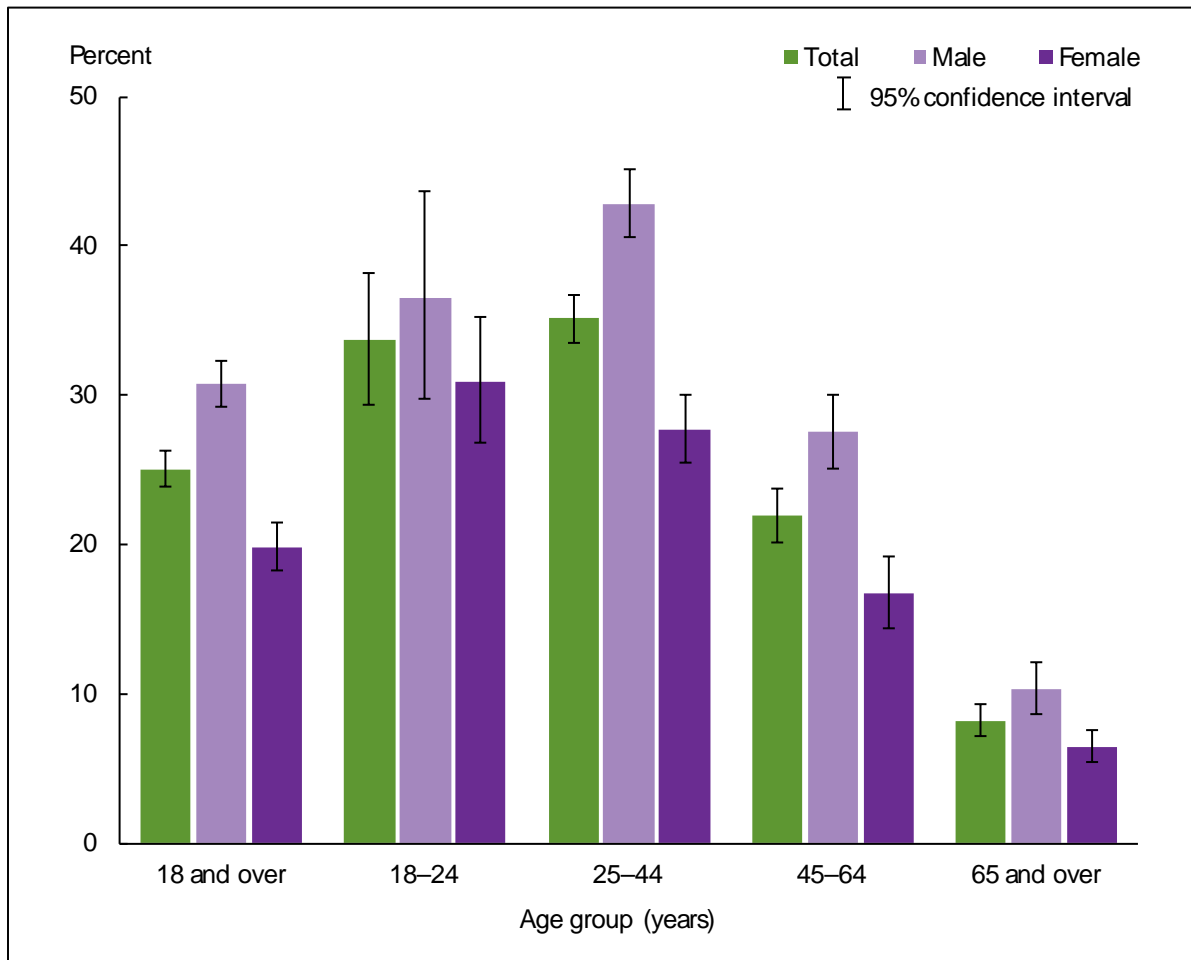
† For 1997–2013, the alcohol consumption estimates presented were for the percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, regardless of sex. However, in the 2014 National Health Interview Survey (NHIS), the survey questions were changed; male and female respondents were asked about a different quantity of drinks consumed in a day in the past year. As a result, the estimates presented for 2014 and later (dashed line) were for men aged 18 and over who had five or more drinks in 1 day at least once in the past year and for women aged 18 and over who had four or more drinks in 1 day at least once in the past year. Differences observed in estimates for women based on the 2014 and later NHIS may be partially or fully attributable to these changes in the survey questions on alcohol consumption.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. The analyses exclude adults with unknown alcohol consumption (about 1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, the percentage of men who had at least 1 heavy drinking day in the past year was 30.7% (95% confidence interval = 29.28%–32.24%). This was lower than, but not significantly different from the 2016 estimate of 31.6%.
- The percentage of women who had at least one heavy drinking day in the past year was 19.8% (95% confidence interval = 18.29%–21.40%). This was higher than, but not significantly different from, the 2016 estimate of 18.9%.
- The percentage of men who had at least 1 heavy drinking day in the past year decreased, from 31.6% in 1997 to 27.8% in 2006, and then increased to 32.4% in 2009. From 2009 through January–June 2017, the percentage of men who had at least 1 heavy drinking day in the past year remained stable.
- The percentage of women who had at least 1 heavy drinking day in the past year remained stable from 1997 to 2004, increased from 11.2% in 2004 to 14.5% in 2013, and then remained stable from 2014 through January–June 2017.

Figure 9.2. Percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year, by age group and sex: United States, January–June 2017

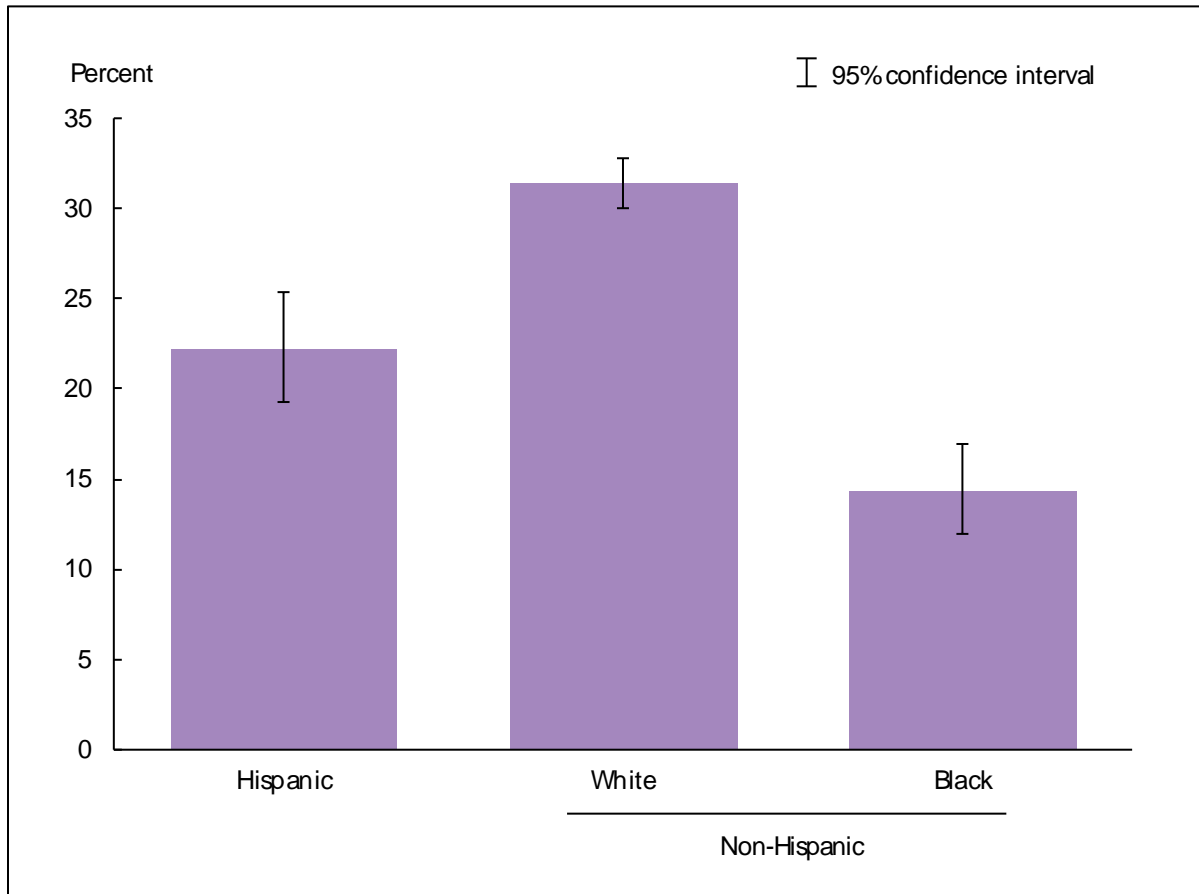


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Heavy drinking days are defined as days in which men consumed five or more drinks and women consumed four or more drinks. The analyses exclude the 1.2% of adults with unknown alcohol consumption. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For January–June 2017, the percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year was 25.1% (95% confidence interval = 23.88%–26.28%).
- For both sexes combined, the percentage of adults who had at least 1 heavy drinking day in the past year was highest among adults aged 18–24 (33.7%) and 25–44 (35.1%), and decreased with increasing age after age 45. This pattern was observed for both men and women.
- For adults aged 18 and over and those aged 25–44, 45–64, and 65 and over, men were more likely than women to have had at least 1 heavy drinking day in the past year.

Figure 9.3. Age-sex-adjusted percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Heavy drinking days are defined as days in which men consumed five or more drinks and women consumed four or more drinks. The analyses exclude the 1.2% of adults with unknown alcohol consumption. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–24, 25–44, 45–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted percentage of adults by race and ethnicity who had at least 1 heavy drinking day in the past year was 22.2% for Hispanic adults, 31.4% for non-Hispanic white adults, and 14.3% for non-Hispanic black adults.
- Non-Hispanic white adults were the most likely to have had at least 1 heavy drinking day in the past year compared with Hispanic adults and non-Hispanic black adults. Hispanic adults were more likely to have had at least 1 heavy drinking day in the past year compared with non-Hispanic black adults.

Data tables for Figures 9.1–9.3:

Data table for Figure 9.1. Percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year, by sex: United States, 1997– June 2017

Year and sex	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997, male	31.6 (30.6–32.5)	30.6 (29.7–31.5)
1997, female	12.1 (11.5–12.7)	12.2 (11.6–12.7)
1998, male	29.9 (28.9–30.9)	29.0 (28.1–29.9)
1998, female	11.4 (10.8–12.1)	11.5 (10.9–12.1)
1999, male	29.8 (28.7–30.9)	29.0 (28.0–30.0)
1999, female	11.7 (11.1–12.4)	11.8 (11.2–12.5)
2000, male	28.9 (27.9–29.9)	28.2 (27.2–29.2)
2000, female	10.6 (10.0–11.2)	10.8 (10.2–11.4)
2001, male	29.2 (28.3–30.2)	28.6 (27.7–29.4)
2001, female	11.6 (11.0–12.3)	11.9 (11.3–12.5)
2002, male	29.2 (28.2–30.3)	28.7 (27.7–29.7)
2002, female	11.5 (10.9–12.1)	11.8 (11.2–12.4)
2003, male	27.8 (26.7–28.8)	27.3 (26.3–28.3)
2003, female	11.3 (10.7–12.0)	11.6 (10.9–12.3)
2004, male	27.7 (26.6–28.8)	27.3 (26.2–28.4)
2004, female	11.2 (10.7–11.9)	11.6 (11.0–12.2)
2005, male	28.1 (27.14–29.15)	27.9 (26.91–28.81)
2005, female	11.6 (10.95–12.28)	12.0 (11.38–12.72)
2006, male	27.8 (26.54–29.01)	27.6 (26.38–28.72)
2006, female	12.1 (11.41–12.86)	12.6 (11.83–13.29)
2007, male	29.0 (27.58–30.44)	28.9 (27.56–30.27)
2007, female	12.4 (11.53–13.32)	13.0 (12.05–13.88)
2008, male	30.8 (29.38–32.24)	30.8 (29.42–32.19)
2008, female	13.8 (12.91–14.72)	14.5 (13.56–15.47)
2009, male	32.4 (31.05–33.80)	32.6 (31.20–33.91)
2009, female	13.8 (13.01–14.66)	14.5 (13.72–15.36)
2010, male	31.5 (30.36–32.66)	31.8 (30.64–32.89)
2010, female	14.6 (13.81–15.42)	15.4 (14.56–16.19)
2011, male	31.2 (30.08–32.28)	31.6 (30.54–32.67)
2011, female	13.6 (12.91–14.38)	14.4 (13.69–15.20)
2012, male	31.4 (30.28–32.52)	31.9 (30.80–33.06)
2012, female	14.2 (13.45–15.01)	15.2 (14.41–16.00)
2013, male	30.9 (29.82–32.01)	31.7 (30.60–32.71)
2013, female	14.5 (13.75–15.25)	15.6 (14.73–16.37)
2014, male ³	31.4 (30.25–32.63)	32.3 (31.13–33.53)
2014, female ³	18.9 (17.96–19.86)	20.2 (19.27–21.20)
2015, male ³	29.9 (28.68–31.18)	30.8 (29.61–32.06)
2015, female ³	17.4 (16.56–18.29)	18.6 (17.70–19.54)
2016, male ³	31.6 (30.46–32.79)	32.7 (31.52–33.84)
2016, female ³	18.9 (18.08–19.73)	20.3 (19.39–21.15)
January–June 2017, male ³	30.7 (29.28–32.24)	31.9 (30.37–33.44)
January–June 2017, female ³	19.8 (18.29–21.40)	21.2 (19.65–22.82)

¹Crude estimates are presented.²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–24, 25–44, 45–64, and 65 and over.³For 1997–2013, the alcohol consumption estimates presented were for the percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, regardless of sex. However, in the 2014 National Health Interview Survey (NHIS), the survey questions were changed; male and female respondents were asked about a different quantity of drinks consumed in a day in the past year. As a result, the estimates presented for 2014 and later were for men aged 18 and over who had five or more drinks in 1 day at least once in the past year and for women aged 18 and over who had four or more drinks in 1 day at least once in the past year. Differences observed in estimates for women based on the 2014 and earlier NHIS may be partially or fully attributable to these changes in the survey questions on alcohol consumption.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, NHIS transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See Technical Notes for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 9.2. Percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–24 , total	33.7	29.42–38.24
18–24 , male	36.5	29.79–43.63
18–24 , female	30.9	26.84–35.24
25–44 , total	35.1	33.49–36.77
25–44 , male	42.8	40.56–45.14
25–44 , female	27.7	25.42–30.00
45–64 , total	21.9	20.17–23.75
45–64 , male	27.5	25.11–29.99
45–64 , female	16.7	14.44–19.21
65 and over, total	8.2	7.13–9.28
65 and over, male	10.3	8.59–12.15
65 and over, female	6.5	5.41–7.63
18 and over (crude ¹), total	25.1	23.88–26.28
18 and over (crude ¹), male	30.7	29.28–32.24
18 and over (crude ¹), female	19.8	18.29–21.40
18 and over (age-adjusted ²), total	26.4	25.17–27.66
18 and over (age-adjusted ²), male	31.9	30.37–33.44
18 and over (age-adjusted ²), female	21.2	19.65–22.82

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–24, 25–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 9.3. Age-sex-adjusted percentage of adults aged 18 and over who had at least 1 heavy drinking day in the past year, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	22.2	19.24–25.42
Not Hispanic or Latino, single race, white	31.4	30.02–32.85
Not Hispanic or Latino, single race, black	14.3	12.00–16.90

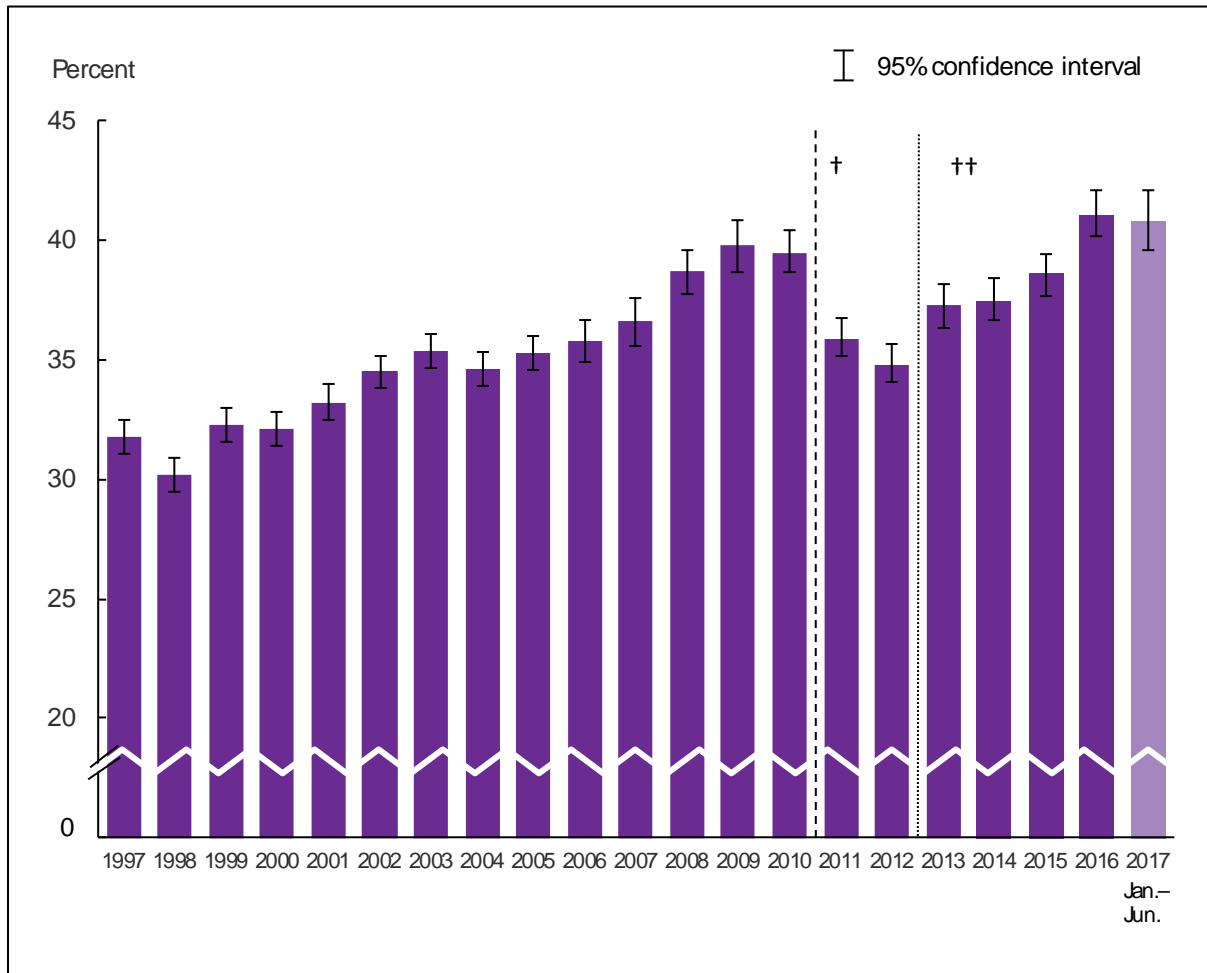
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–24, 25–44, 45–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Human immunodeficiency virus testing

Figure 10.1. Percentage of adults aged 18 and over who had ever been tested for HIV: United States, 1997–June 2017



† The AIDS Knowledge and Attitudes section of the National Health Interview Survey (NHIS) was dropped in 2011; only the human immunodeficiency virus (HIV) testing question was retained, and it was moved to the Adult Access to Health Care and Utilization section of the Sample Adult questionnaire. HIV testing estimates based on 2011–2012 NHIS (dashed line) are not comparable with those from 2010 and earlier, or 2013 and later. Differences observed in estimates based on 2010 and earlier NHIS, 2011–2012 NHIS, and 2013 and later NHIS may be partially or fully attributable to these changes in placement of the HIV testing question in the NHIS questionnaire.

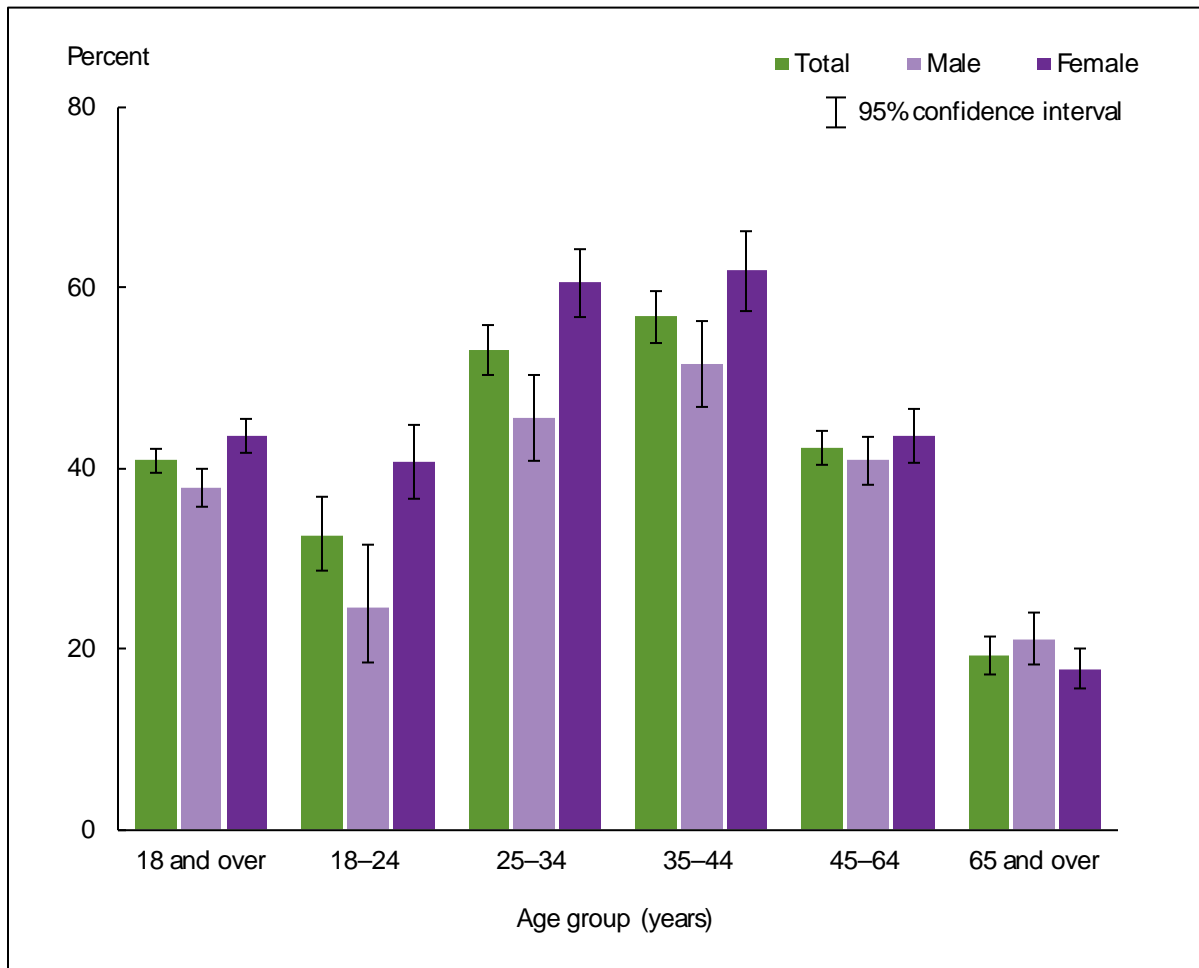
†† In 2013, the HIV testing question was moved from the Adult Access to Care and Utilization section of the Sample Adult questionnaire to the Adult Selected Items section of the Sample Adult questionnaire. HIV testing estimates based on 2013 and later NHIS (dotted line) are not comparable with those from 2012 and earlier. Differences observed in estimates based on 2012 and earlier NHIS and on 2013 and later NHIS may be partially or fully attributable to these changes in placement of the HIV testing question in the NHIS questionnaire.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Persons who received HIV testing solely as a result of blood donation were considered not to have been tested for HIV. The analyses exclude those with unknown HIV test status (about 5% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, the percentage of adults who had ever been tested for HIV was 40.8% (95% confidence interval = 39.56%–42.09%), which was not statistically different from the 2016 estimate of 41.1%.
- The percentage of adults who had ever had an HIV test increased, from 31.8% in 1997 to 39.5% in 2010.
- From 2013 through January–June 2017, the percentage of adults who had ever been tested for HIV increased, from 37.3% to 40.8%.

Figure 10.2. Percentage of adults aged 18 and over who had ever been tested for HIV, by age group and sex: United States, January–June 2017

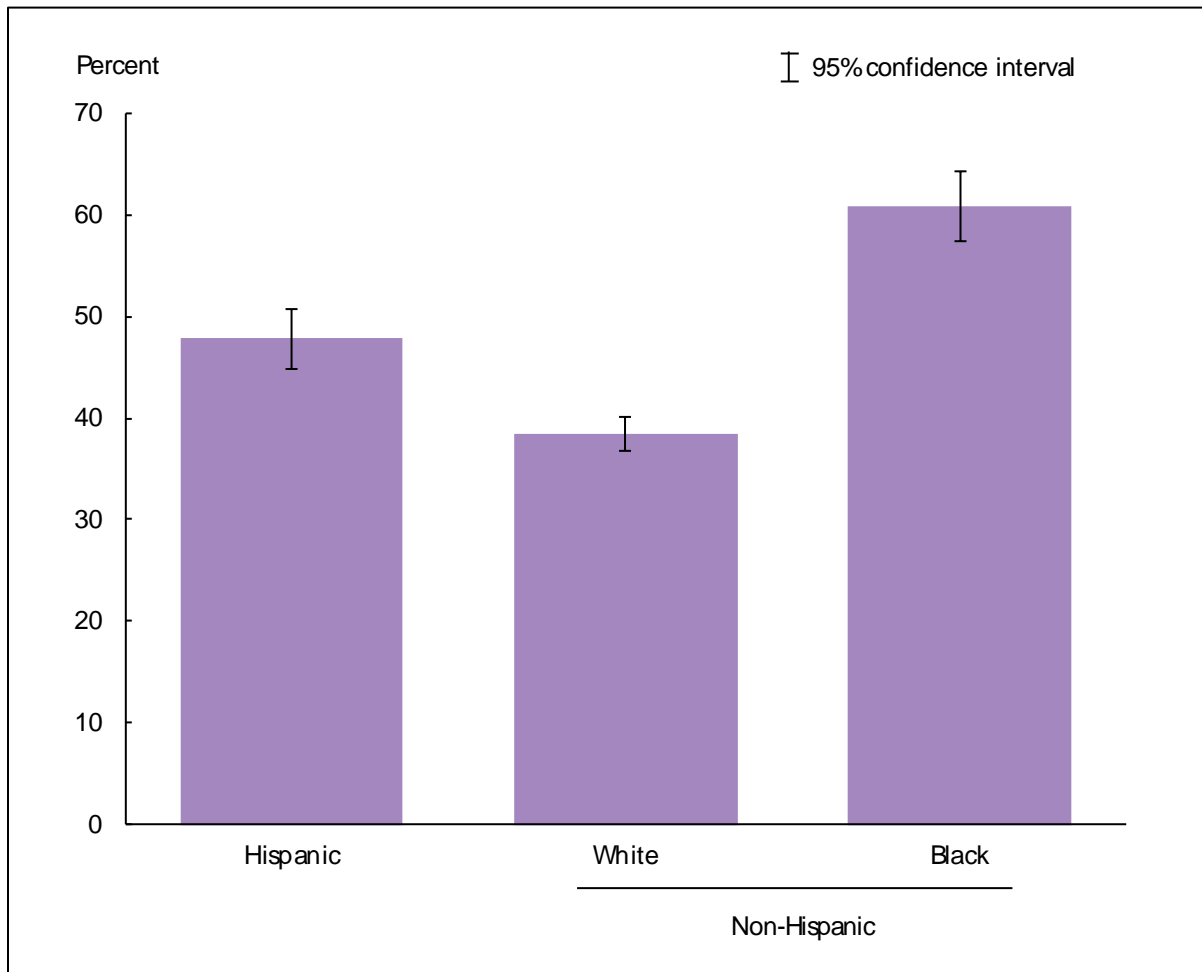


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Persons who received human immunodeficiency virus (HIV) testing solely as a result of blood donation were considered not to have been tested for HIV. The AIDS Knowledge and Attitudes section of the National Health Interview Survey (NHIS) was dropped in 2011; only the HIV testing question was retained, and it was moved to the Adult Access to Health Care and Utilization section of the Sample Adult questionnaire. In 2013, the HIV testing question was moved again to the Adult Selected Items section of the Sample Adult questionnaire and is not comparable with 2011–2012. Differences observed in estimates based on 2010 and earlier NHIS, 2011–2012 NHIS, and 2013 and later NHIS may be partially or fully attributable to these changes in placement of the HIV testing question in the NHIS questionnaire. The analyses exclude the 5.4% of adults with unknown HIV test status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, the percentage of adults by age group who ever had an HIV test was highest among adults aged 25–34 (53.1%) and 35–44 (56.8%) and lowest among adults aged 65 and over (19.2%). This pattern held for males and females.
- For adults aged 18 and over, and for age groups 18–24, 25–34, and 35–44, women were more likely than men to have ever had an HIV test.

Figure 10.3. Age-sex-adjusted percentage of adults aged 18 and over who had ever been tested for HIV, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Persons who received human immunodeficiency virus (HIV) testing solely as a result of blood donation were considered not to have been tested for HIV. The AIDS Knowledge and Attitudes section of the National Health Interview Survey (NHIS) was dropped in 2011; only the HIV testing question was retained, and it was moved to the Adult Access to Health Care and Utilization section of the Sample Adult questionnaire. In 2013, the HIV testing question was moved again to the Adult Selected Items section of the Sample Adult questionnaire and is not comparable with 2011–2012. Differences observed in estimates based on 2010 and earlier NHIS, 2011–2012 NHIS, and 2013 and later NHIS may be partially or fully attributable to these changes in placement of the HIV testing question in the NHIS questionnaire. The analyses exclude the 5.4% of adults with unknown HIV test status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted percentage of adults by race and ethnicity who ever had an HIV test was 47.8% for Hispanic adults, 38.5% for non-Hispanic white adults, and 60.8% for non-Hispanic black adults.
- Of the three race and ethnicity groups, non-Hispanic black adults were more likely to have ever had an HIV test compared with Hispanic and non-Hispanic white adults. Non-Hispanic white adults were less likely to have ever had an HIV test compared with Hispanic adults.

Data tables for Figures 10.1–10.3:

Data table for Figure 10.1. Percentage of adults aged 18 and over who had ever been tested for HIV: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	31.8 (31.1–32.5)	31.0 (30.4–31.6)
1998	30.2 (29.5–30.9)	29.6 (28.9–30.2)
1999	32.3 (31.6–33.0)	31.8 (31.1–32.5)
2000	32.1 (31.4–32.8)	31.8 (31.2–32.5)
2001	33.2 (32.5–34.0)	33.1 (32.4–33.7)
2002	34.5 (33.8–35.2)	34.5 (33.8–35.1)
2003	35.4 (34.7–36.1)	35.3 (34.7–36.0)
2004	34.6 (33.9–35.3)	34.8 (34.1–35.5)
2005	35.3 (34.58–36.01)	35.4 (34.73–36.10)
2006	35.8 (34.94–36.70)	36.1 (35.25–36.92)
2007	36.6 (35.59–37.62)	37.0 (35.28–38.79)
2008	38.7 (37.73–39.59)	39.2 (38.40–40.09)
2009	39.8 (38.70–40.84)	40.4 (39.36–41.40)
2010	39.5 (38.65–40.41)	40.3 (39.52–41.15)
2011 ³	35.9 (35.14–36.72)	36.7 (35.97–37.51)
2012	34.8 (34.04–35.64)	35.8 (34.98–36.62)
2013 ³	37.3 (36.33–38.20)	38.3 (37.42–39.25)
2014	37.5 (36.66–38.41)	38.8 (37.92–39.71)
2015	38.6 (37.66–39.45)	39.8 (38.95–40.73)
2016	41.1 (40.18–42.10)	42.4 (41.47–43.32)
January–June 2017	40.8 (39.56–42.09)	42.2 (40.92–43.53)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

³The AIDS Knowledge and Attitudes section of the National Health Interview Survey (NHIS) was dropped in 2011; only the HIV testing question was retained, and it was moved to the Adult Access to Health Care and Utilization section of the Sample Adult questionnaire. In 2013, the HIV testing question was moved again to the Adult Selected Items section of the Sample Adult questionnaire. HIV testing estimates from these three periods (2010 and earlier, 2011–2012, and 2013 and later) are not comparable; differences observed in estimates may be partially or fully attributable to these changes in placement of the HIV testing question in the NHIS questionnaire.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, NHIS transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 10.2. Percentage of adults aged 18 and over who had ever been tested for HIV, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–24, total	32.5	28.55–36.74
18–24, male	24.6	18.47–31.56
18–24, female	40.7	36.68–44.85
25–34, total	53.1	50.28–55.82
25–34, male	45.6	40.85–50.36
25–34, female	60.5	56.72–64.18
35–44, total	56.8	53.87–59.62
35–44, male	51.6	46.84–56.25
35–44, female	61.8	57.29–66.26
45–64, total	42.2	40.30–44.16
45–64, male	40.8	38.21–43.48
45–64, female	43.5	40.58–46.50
65 and over, total	19.2	17.13–21.41
65 and over, male	21.0	18.25–24.03
65 and over, female	17.7	15.60–19.97
18–64, total	46.1	44.75–47.52
18–64, male	41.6	39.27–43.89
18–64, female	50.6	48.28–52.83
18 and over (crude ¹), total	40.8	39.56–42.09
18 and over (crude ¹), male	37.8	35.78–39.85
18 and over (crude ¹), female	43.7	41.77–45.54
18 and over (age-adjusted ²), total	42.2	40.92–43.53
18 and over (age-adjusted ²), male	38.6	36.55–40.64
18 and over (age-adjusted ²), female	45.9	43.83–47.94

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 10.3. Age-sex-adjusted percentage of adults aged 18 and over who had ever been tested for HIV, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	47.8	44.84–50.72
Not Hispanic or Latino, single race, white	38.5	36.86–40.20
Not Hispanic or Latino, single race, black	60.8	57.31–64.26

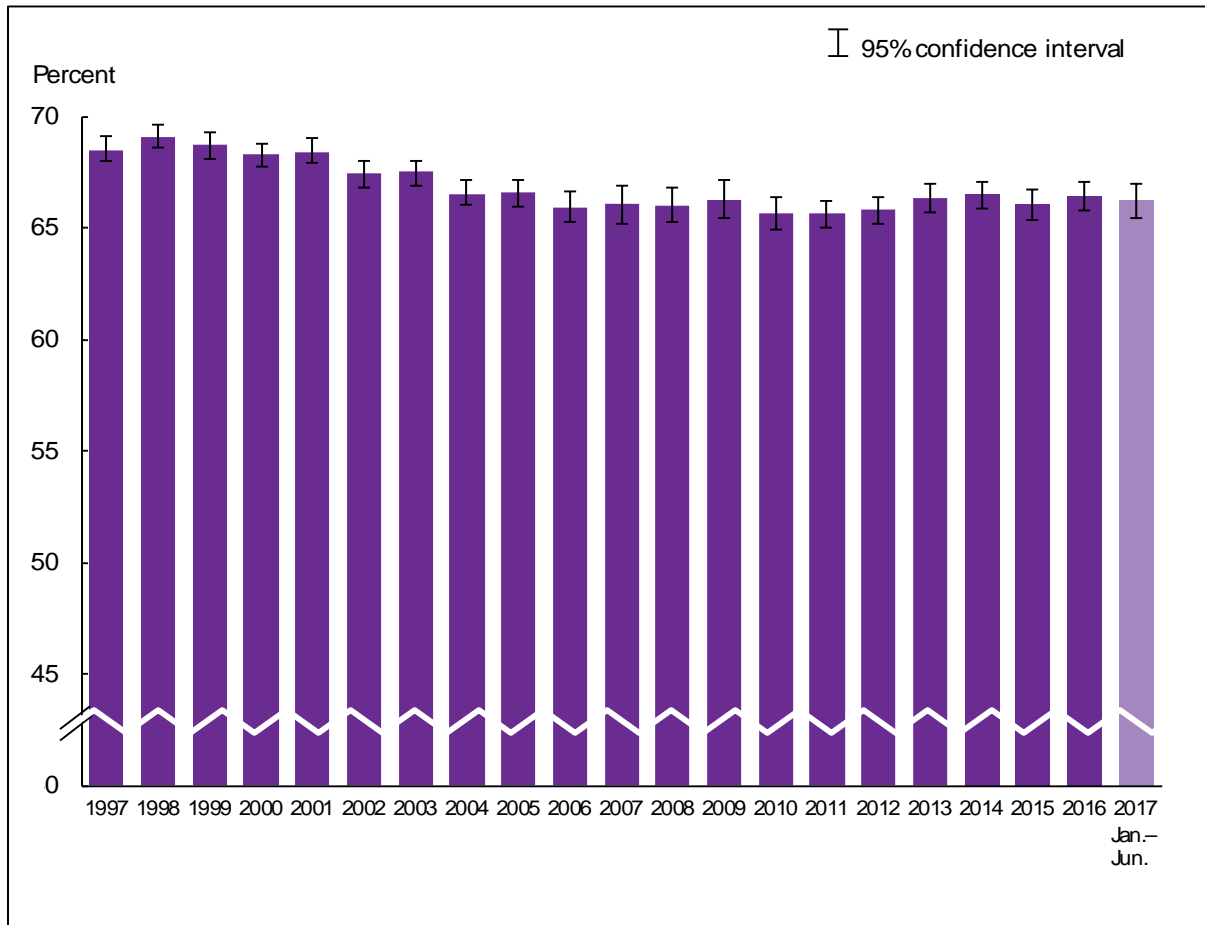
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

General health status

Figure 11.1. Percentage of persons of all ages who had excellent or very good health: United States, 1997– June 2017

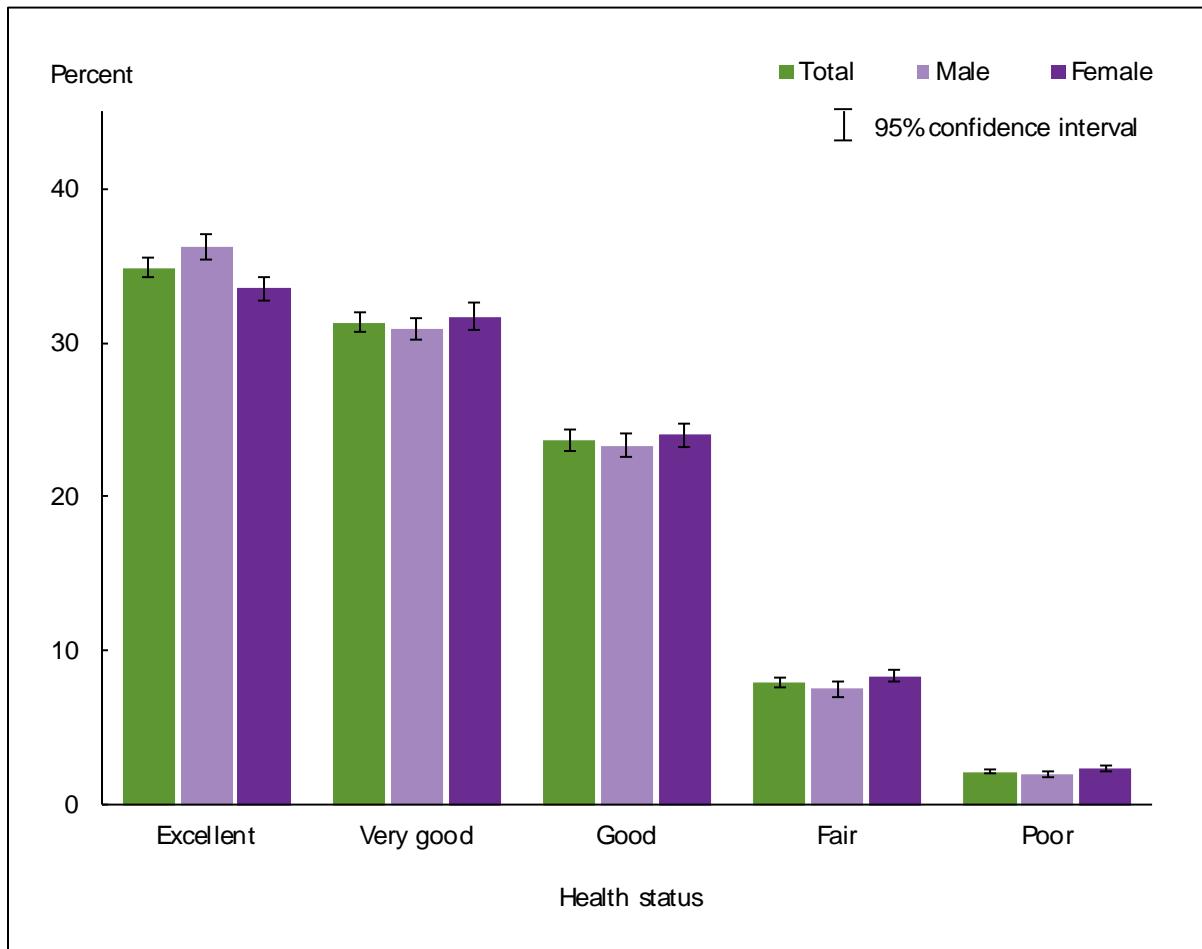


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Health status data were obtained by asking respondents to assess their own health and that of family members living in the same household as excellent, very good, good, fair, or poor. The analyses exclude persons with unknown health status (about 0.1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

- For January–June 2017, the percentage of persons who had excellent or very good health was 66.2% (95% confidence interval = 65.47%–66.93%), which was not significantly different from the 2016 estimate of 66.4%.
- The percentage of persons who had excellent or very good health decreased, from 68.5% in 1997 to 65.9% in 2006. Since 2006, the percentage of persons who had excellent or very good health has remained stable.

Figure 11.2. Percent distribution of respondent–assessed health status for all ages, by sex: United States, January–June 2017

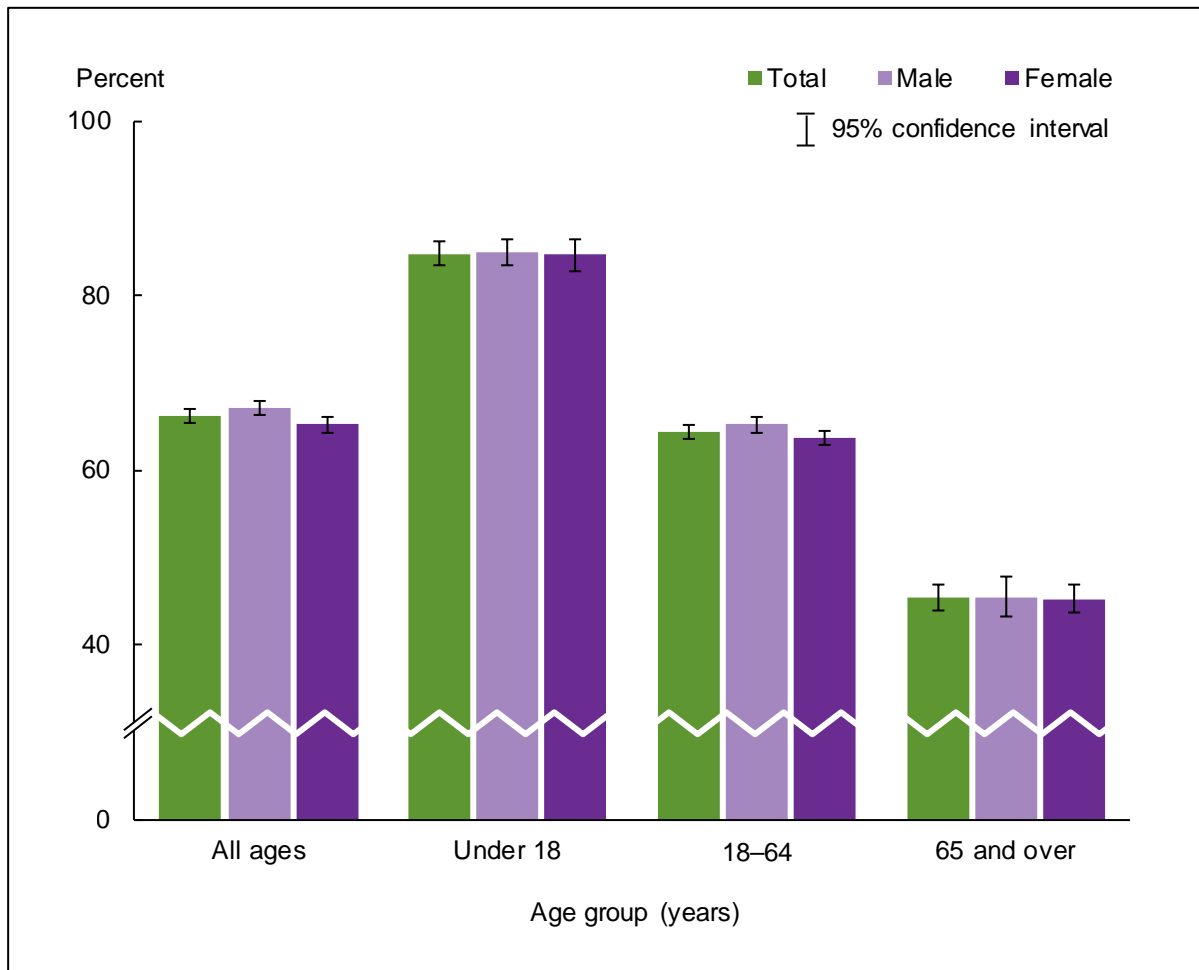


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Health status data were obtained by asking respondents to assess their own health and that of family members living in the same household as excellent, very good, good, fair, or poor. The analyses exclude the 0.1% of persons with unknown health status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- For both sexes combined, most persons’ health was either excellent (34.9%) or very good (31.3%). A smaller percentage of persons had good (23.7%), fair (8.0%), or poor (2.2%) health. This pattern held for males and females.
- Men were more likely to have excellent health compared with women. Women were more likely than men to have fair or poor health.

Figure 11.3. Percentage of persons of all ages who had excellent or very good health, by age group and sex: United States, January–June 2017

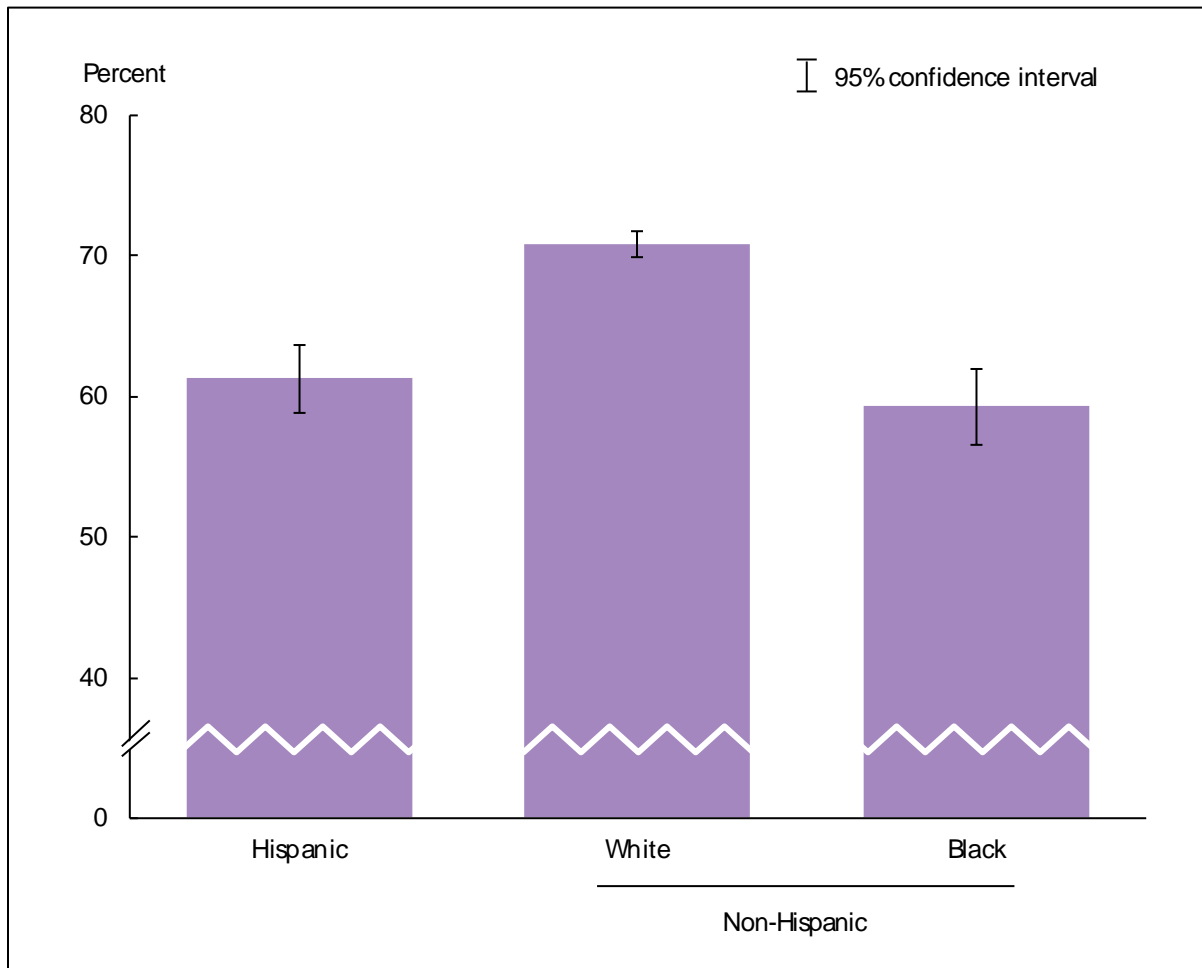


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Health status data were obtained by asking respondents to assess their own health and that of family members living in the same household as excellent, very good, good, fair, or poor. The analyses exclude the 0.1% of persons with unknown health status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- For both sexes combined, the percentage of persons with excellent or very good health decreased with age, 84.8% for those under age 18 years to 64.4% for those aged 18–64, and 45.3% for those aged 65 and over. This pattern was observed in both men and women.
- For persons of all ages and adults 18–64, males were more likely than females to have excellent or very good health.

Figure 11.4. Age-sex-adjusted percentage of persons of all ages who had excellent or very good health, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Health status data were obtained by asking respondents to assess their own health and that of family members living in the same household as excellent, very good, good, fair, or poor. The analyses exclude the 0.1% of persons with unknown health status. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- After adjustment for age and sex, the percentage of persons by race and ethnicity who had excellent or very good health was 61.3% for Hispanic persons, 70.8% for non-Hispanic white persons, and 59.3% for non-Hispanic black persons.
- Of the three race and ethnicity groups, non-Hispanic white persons were more likely to have excellent or very good health compared with non-Hispanic black persons and Hispanic persons.

Data tables for Figures 11.1–11.4:**Data table for Figure 11.1. Percentage of persons of all ages who had excellent or very good health: United States, 1997– June 2017**

Year	Percent	95% confidence interval
1997	68.5	68.0–69.1
1998	69.1	68.6–69.6
1999	68.7	68.1–69.3
2000	68.3	67.7–68.8
2001	68.4	67.9–69.0
2002	67.4	66.8–68.0
2003	67.5	66.9–68.0
2004	66.5	66.0–67.1
2005	66.5	65.98–67.11
2006	65.9	65.25–66.61
2007	66.0	65.18–66.88
2008	66.0	65.30–66.79
2009	66.3	65.46–67.10
2010	65.7	64.95–66.35
2011	65.6	64.98–66.24
2012	65.8	65.19–66.41
2013	66.3	65.70–66.93
2014	66.5	65.85–67.08
2015	66.1	65.37–66.73
2016	66.4	65.76–67.09
January–June 2017	66.2	65.47–66.93

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

Data table for Figure 11.2. Percent distribution of respondent–assessed health status, by sex for all ages: United States, January–June 2017

Health status and sex	Percent	95% confidence interval
Excellent, total	34.9	34.29–35.49
Excellent, male	36.3	35.46–37.11
Excellent, female	33.6	32.79–34.32
Very good, total	31.3	30.66–31.97
Very good, male	30.9	30.20–31.65
Very good, female	31.7	30.79–32.60
Good, total	23.7	23.01–24.34
Good, male	23.3	22.55–24.10
Good, female	24.0	23.25–24.77
Fair, total	8.0	7.62–8.32
Fair, male	7.5	7.06–8.03
Fair, female	8.4	7.96–8.83
Poor, total	2.2	2.00–2.33
Poor, male	1.9	1.75–2.15
Poor, female	2.4	2.16–2.59

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Data table for Figure 11.3. Percentage of persons of all ages who had excellent or very good health, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
Under 18, total	84.8	83.50–86.10
Under 18, male	85.0	83.46–86.48
Under 18, female	84.6	82.83–86.34
18–64, total	64.4	63.68–65.18
18–64, male	65.2	64.29–66.14
18–64, female	63.7	62.78–64.55
65 and over, total	45.3	43.92–46.78
65 and over, male	45.4	43.15–47.74
65 and over, female	45.3	43.66–46.90
All ages (crude ¹), total	66.2	65.47–66.93
All ages (crude ¹), male	67.2	66.39–68.01
All ages (crude ¹), female	65.2	64.35–66.13
All ages (age-adjusted ²), total	67.3	66.59–67.96
All ages (age-adjusted ²), male	67.8	67.01–68.63
All ages (age-adjusted ²), female	66.8	65.89–67.60

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Data table for Figure 11.4. Age-sex-adjusted percentage of persons of all ages who had excellent or very good health, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	61.3	58.82–63.66
Not Hispanic or Latino, single race, white	70.8	69.96–71.72
Not Hispanic or Latino, single race, black	59.3	56.52–61.97

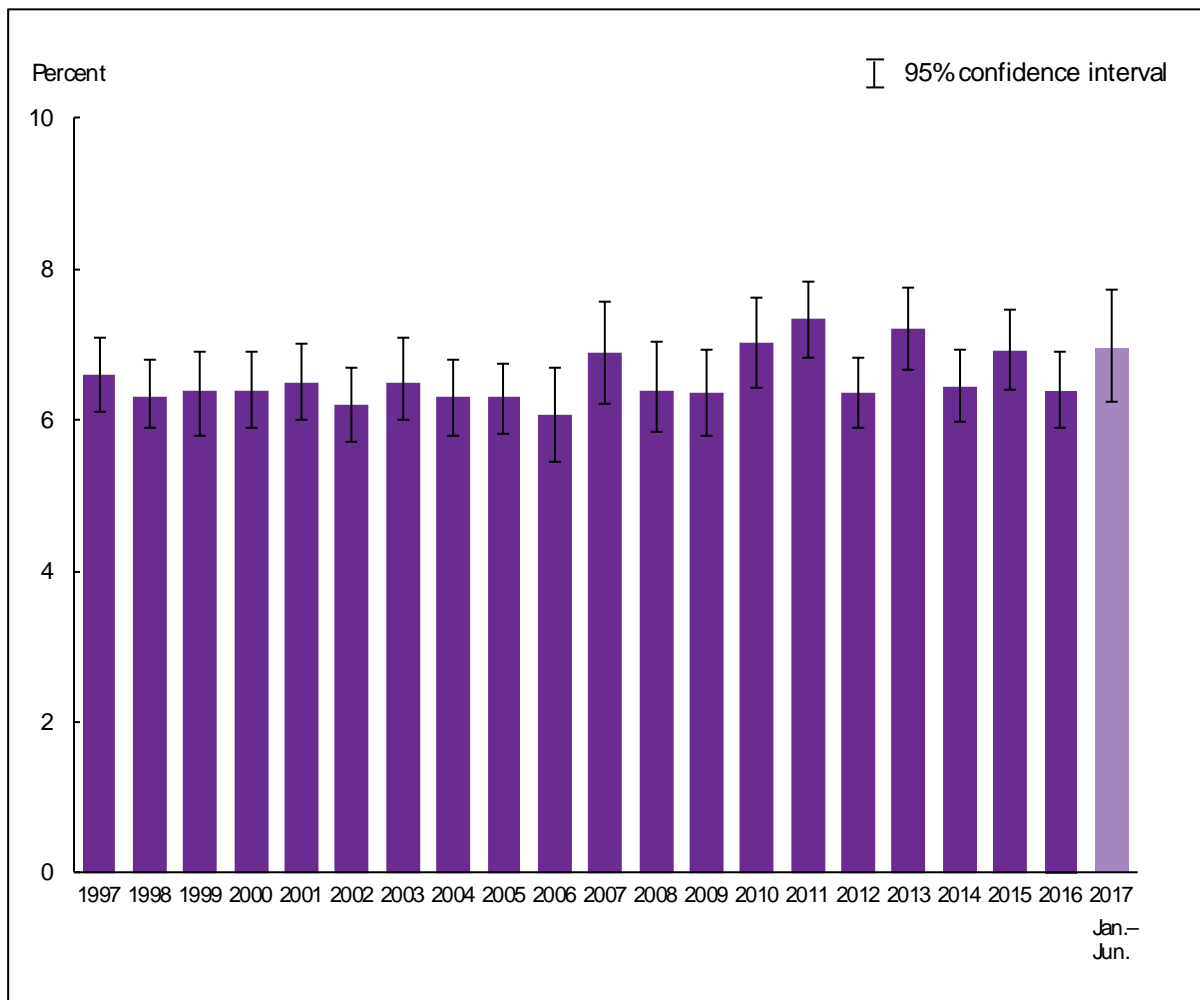
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: under 18 years, 18–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Personal care needs

Figure 12.1. Percentage of adults aged 65 and over who needed help with personal care from other persons: United States, 1997– June 2017

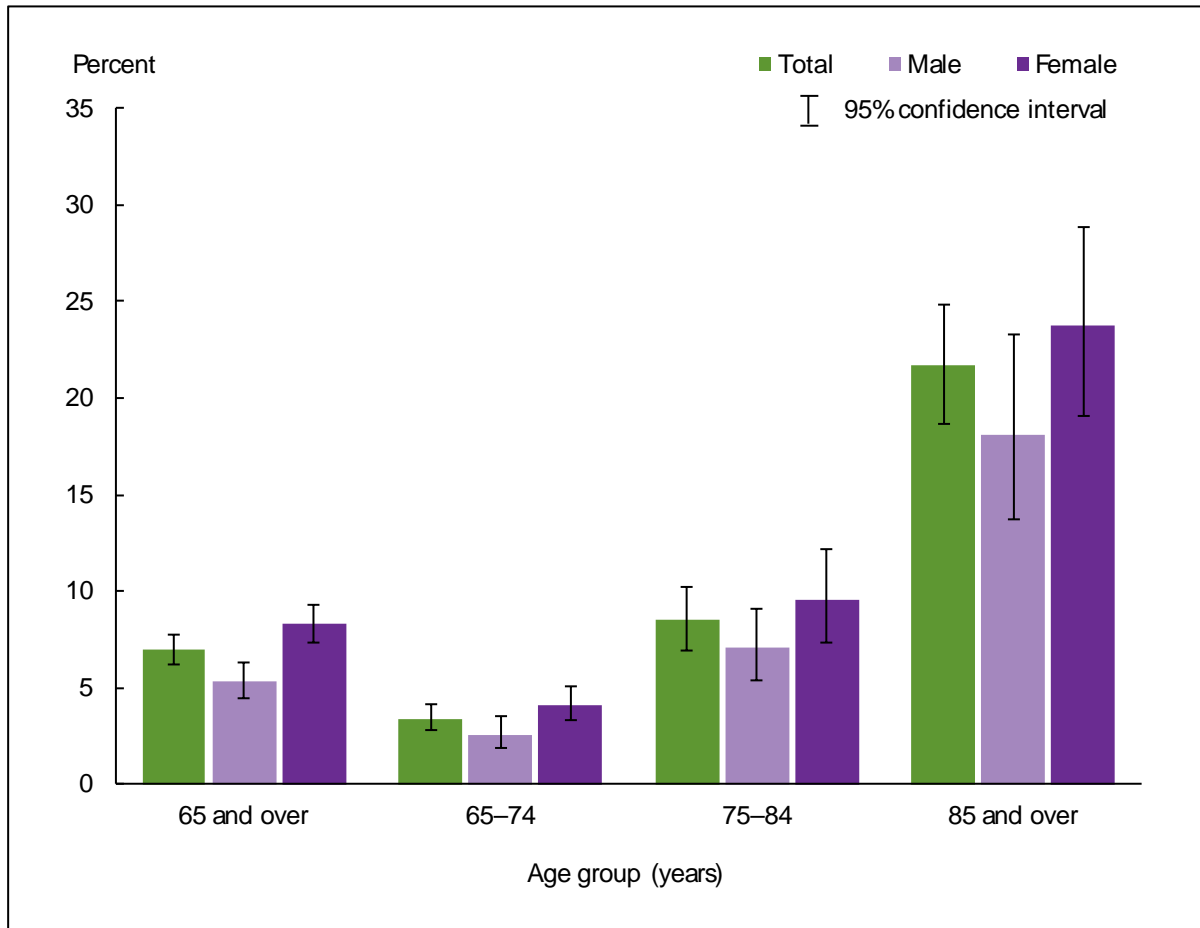


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Personal care needs, or activities of daily living, include eating, bathing, dressing, and getting around inside the person’s home. The analyses exclude persons with unknown information on personal care needs (less than 0.1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

- For January–June 2017, 7.0% (95% confidence interval = 6.25%–7.72%) of adults aged 65 and over needed help with personal care from other persons. This estimate was higher than, but not significantly different from, the 2016 estimate of 6.4%.
- From 1997–June 2017, no clear trend was observed in the percentage of older adults who needed help with personal care from other persons.

Figure 12.2. Percentage of adults aged 65 and over who needed help with personal care from other persons, by age group and sex: United States, January–June 2017

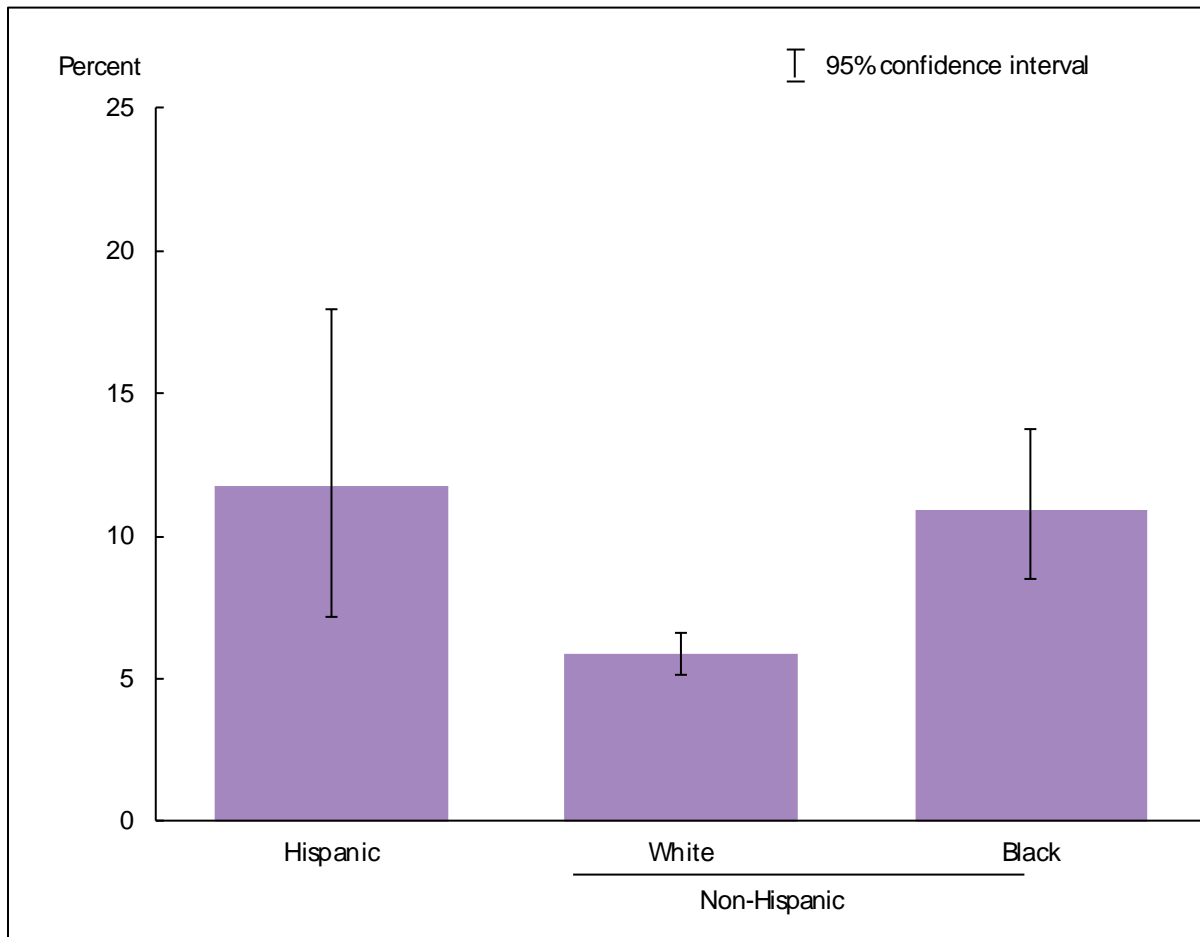


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Personal care needs, or activities of daily living, include eating, bathing, dressing, and getting around inside the person’s home. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- For both sexes combined, adults aged 85 and over (21.7%) were more than twice as likely as adults aged 75–84 (8.5%) to need help with personal care from other persons, and adults aged 85 and over were more than six times as likely as adults aged 65–74 (3.4%) to need help with personal care from other persons.
- Among males and females aged 65 and over, the need for help with personal care from other persons increased with age.
- For all adults aged 65 and over, and for the age group 65–74, women were more likely than men to need help with personal care from other persons.

Figure 12.3. Age-sex-adjusted percentage of adults aged 65 and over who needed help with personal care from other persons, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Personal care needs, or activities of daily living, include eating, bathing, dressing, and getting around inside the person’s home. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 65–74, 75–84, and 85 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

- The age-sex-adjusted percentage of adults aged 65 and over by race and ethnicity who needed help with personal care from other persons was 11.8% for Hispanic adults, 5.8% for non-Hispanic white adults, and 10.9% for non-Hispanic black adults.
- Non-Hispanic white adults were less likely to need help with personal care from other persons compared with Hispanic adults and non-Hispanic black adults.

Data tables for Figures 12.1–12.3:**Data table for Figure 12.1. Percentage of adults aged 65 and over who needed help with personal care from other persons: United States, 1997– June 2017**

Year	Percent	95% confidence interval
1997	6.6	6.1–7.1
1998	6.3	5.9–6.8
1999	6.4	5.8–6.9
2000	6.4	5.9–6.9
2001	6.5	6.0–7.0
2002	6.2	5.7–6.7
2003	6.5	6.0–7.1
2004	6.3	5.8–6.8
2005	6.3	5.83–6.76
2006	6.1	5.44–6.69
2007	6.9	6.21–7.58
2008	6.4	5.84–7.03
2009	6.4	5.80–6.92
2010	7.0	6.43–7.62
2011	7.3	6.83–7.84
2012	6.4	5.91–6.82
2013	7.2	6.67–7.76
2014	6.5	5.98–6.93
2015	6.9	6.39–7.46
2016	6.4	5.90–6.91
January–June 2017	7.0	6.25–7.72

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997– June 2017, Family Core component.

Data table for Figure 12.2. Percentage of adults aged 65 and over who needed help with personal care from other persons, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
65–74, total	3.4	2.81–4.10
65–74, male	2.6	1.83–3.51
65–74, female	4.1	3.35–5.04
75–84, total	8.5	6.93–10.24
75–84, male	7.1	5.36–9.09
75–84, female	9.6	7.38–12.20
85 and over, total	21.7	18.66–24.89
85 and over, male	18.1	13.72–23.29
85 and over, female	23.7	19.12–28.82
65 and over (crude ¹), total	7.0	6.25–7.72
65 and over (crude ¹), male	5.3	4.46–6.30
65 and over (crude ¹), female	8.3	7.35–9.27
65 and over (age-adjusted ²), total	7.4	6.70–8.25
65 and over (age-adjusted ²), male	6.1	5.11–7.17
65 and over (age-adjusted ²), female	8.5	7.54–9.49

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 65–74, 75–84, and 85 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Data table for Figure 12.3. Age-sex-adjusted percentage of adults aged 65 and over who needed help with personal care from other persons, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	11.8	7.15–17.93
Not Hispanic or Latino, single race, white	5.8	5.16–6.58
Not Hispanic or Latino, single race, black	10.9	8.52–13.74

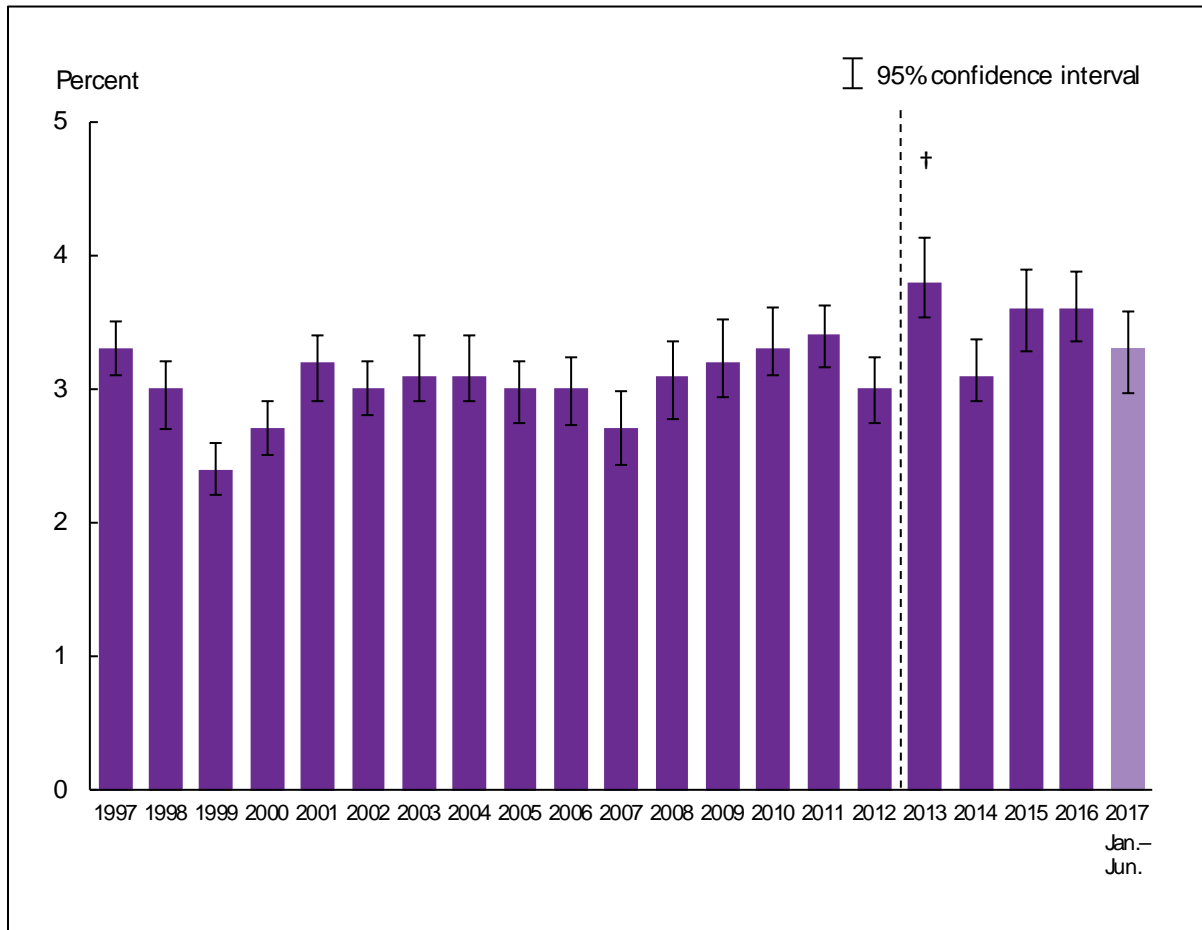
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 65–74, 75–84, and 85 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Family Core component.

Serious psychological distress

Figure 13.1. Percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days: United States, 1997– June 2017



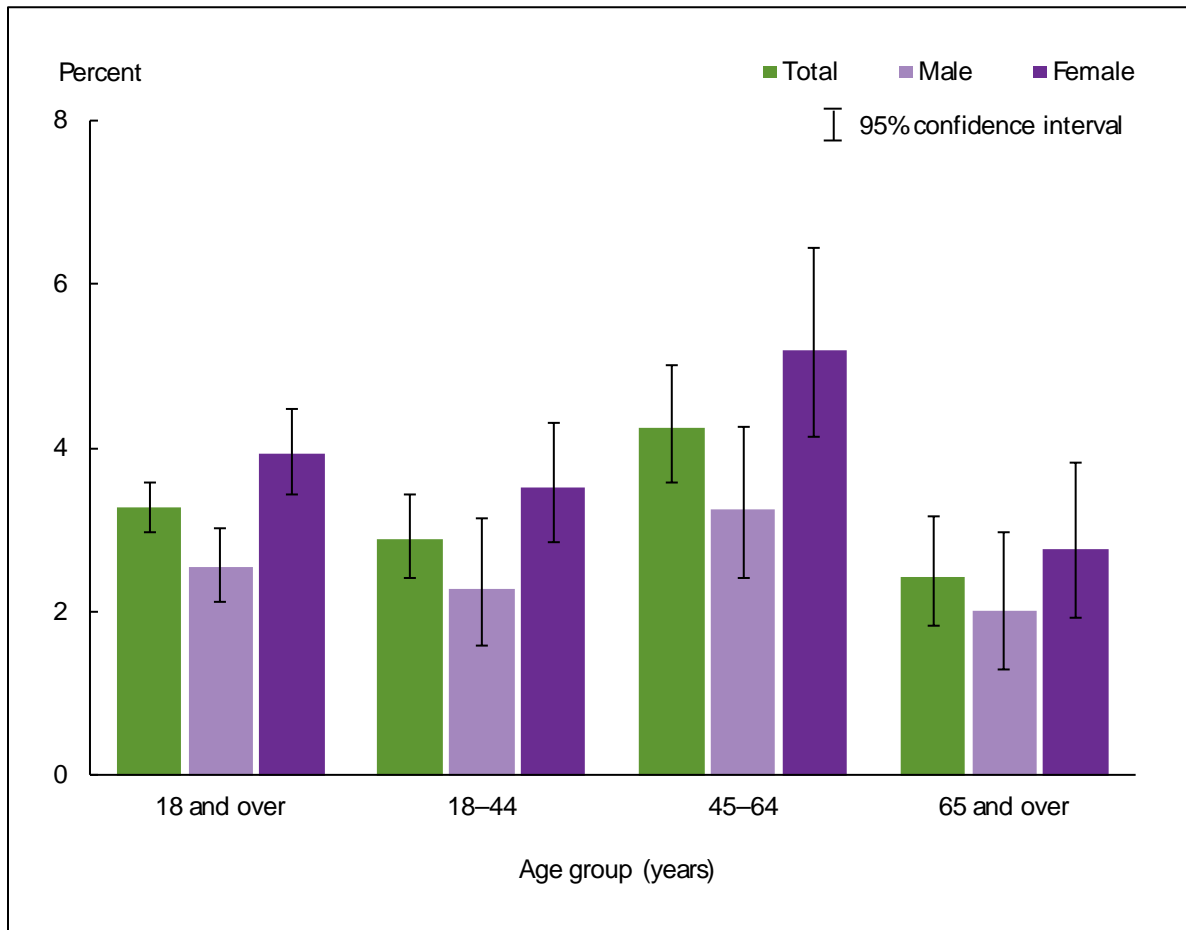
† In 2013, the six psychological distress questions were moved to the Adult Selected Items section of the Sample Adult questionnaire (dashed line). Differences observed in estimates based on 2012 and earlier National Health Interview Surveys (NHIS) and 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions in the NHIS questionnaire. Due to the higher-than-usual amount of missing data in the Adult Selected Items section, adults with missing data for any of the six psychological distress questions are excluded from the calculation of the serious psychological distress indicator for 2013 and later.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Six psychological distress questions are included in the Sample Adult Core component of NHIS. These questions ask how often a respondent experienced certain symptoms of psychological distress during the past 30 days. The response codes (0–4) of the six items for each person are summed to yield a scale with a 0–24 range. A value of 13 or more for this scale is used here to define serious psychological distress (12). The analyses exclude those with unknown serious psychological distress status (about 4% of respondents in 2013 and later). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, 3.3% (95% confidence interval = 2.97%–3.58%) of adults aged 18 and over had experienced serious psychological distress during the past 30 days. This estimate was not significantly different from the 2016 estimate of 3.6%.
- The percentage of adults who had experienced serious psychological distress during the past 30 days increased, from 2.7% in 2007 to 3.4% in 2011, then decreased to 3.0% in 2012.
- From 2013–June 2017, no clear trend was observed in the percentage of adults who had experienced serious psychological distress during the past 30 days.

Figure 13.2. Percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days, by age group and sex: United States, January–June 2017

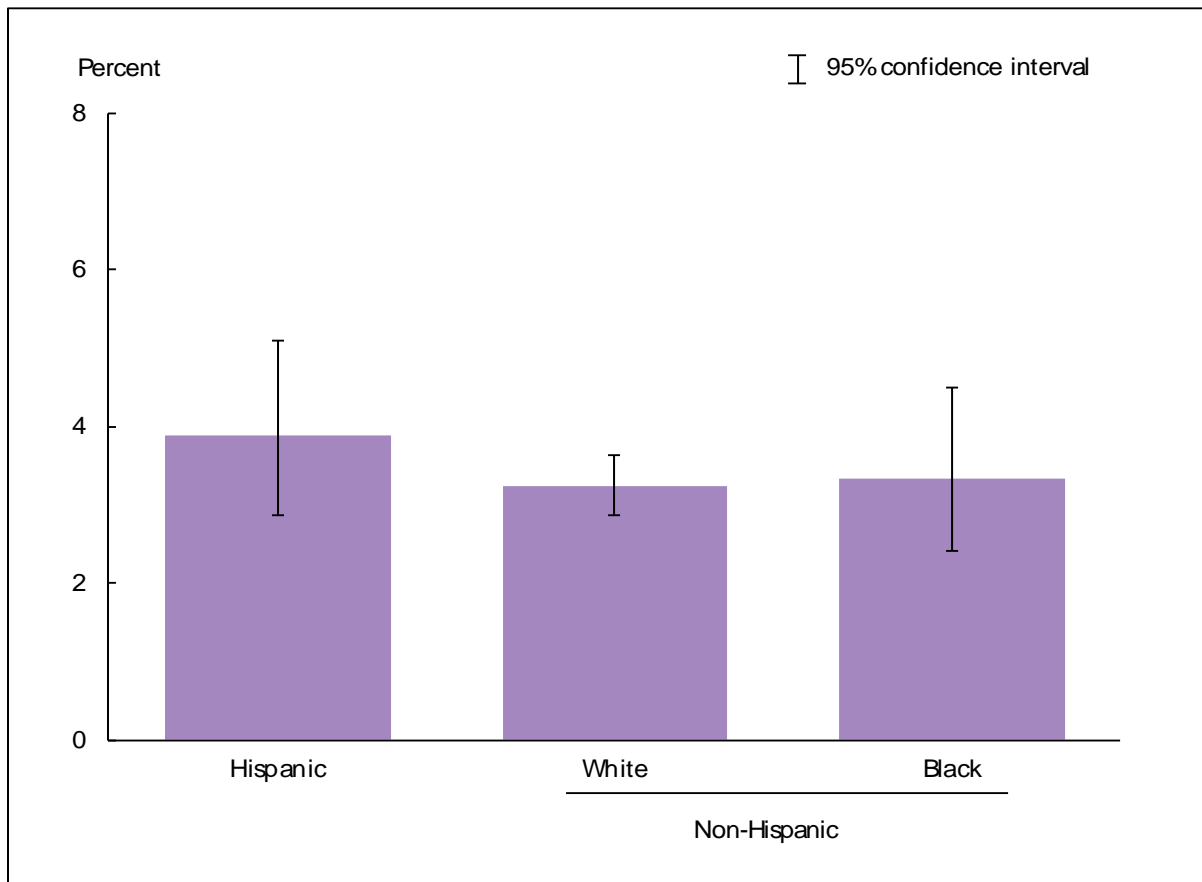


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Six psychological distress questions are included in the Sample Adult Core component of the National Health Interview Survey (NHIS). These questions ask how often a respondent experienced certain symptoms of psychological distress during the past 30 days. The response codes (0–4) of the six items for each person are summed to yield a scale with a 0–24 range. A value of 13 or more for this scale is used here to define serious psychological distress (12). In 2013, the six psychological distress questions were moved to the Adult Selected Items section of the Sample Adult questionnaire. Differences observed in estimates based on 2012 and earlier NHIS and 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions in the NHIS questionnaire. The analyses exclude the 3.6% of persons with unknown serious psychological distress status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, the percentage of adults by age group who had experienced serious psychological distress during the past 30 days was 2.9% for adults aged 18–44, 4.3% for adults aged 45–64, and 2.4% for adults aged 65 and over.
- For adults aged 18 and over, and for age groups 18–44 and 45–64, women were more likely than men to have experienced serious psychological distress during the past 30 days.

Figure 13.3. Age-sex-adjusted percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Six psychological distress questions are included in the Sample Adult Core component of the National Health Interview Survey (NHIS). These questions ask how often a respondent experienced certain symptoms of psychological distress during the past 30 days. The response codes (0–4) of the six items for each person are summed to yield a scale with a 0–24 range. A value of 13 or more for this scale is used here to define serious psychological distress (12). In 2013, the six psychological distress questions were moved to the Adult Selected Items section of the Sample Adult questionnaire. Differences observed in estimates based on 2012 and earlier NHIS and 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions in the NHIS questionnaire. Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 18–44, 45–64, and 65 and over. The analyses exclude the 3.6% of persons with unknown serious psychological distress status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted prevalence of serious psychological distress was 3.9% for Hispanic persons, 3.2% for non-Hispanic white persons, and 3.3% for non-Hispanic black persons.
- No significant differences were observed in the prevalence of serious psychological distress among different race and ethnicity groups.

Data tables for Figures 13.1–13.3:

Data table for Figure 13.1. Percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	3.3 (3.1–3.5)	3.3 (3.1–3.6)
1998	3.0 (2.7–3.2)	3.0 (2.8–3.2)
1999	2.4 (2.2–2.6)	2.4 (2.2–2.6)
2000	2.7 (2.5–2.9)	2.7 (2.5–2.9)
2001	3.2 (2.9–3.4)	3.2 (2.9–3.4)
2002	3.0 (2.8–3.2)	3.0 (2.8–3.2)
2003	3.1 (2.9–3.4)	3.1 (2.9–3.4)
2004	3.1 (2.9–3.4)	3.0 (2.8–3.3)
2005	3.0 (2.74–3.20)	2.9 (2.72–3.17)
2006	3.0 (2.73–3.23)	2.9 (2.68–3.17)
2007	2.7 (2.43–2.98)	2.7 (2.39–2.93)
2008	3.1 (2.78–3.36)	3.0 (2.74–3.32)
2009	3.2 (2.93–3.52)	3.2 (2.90–3.49)
2010	3.3 (3.10–3.60)	3.3 (3.02–3.51)
2011	3.4 (3.16–3.62)	3.3 (3.08–3.54)
2012	3.0 (2.74–3.24)	2.9 (2.69–3.19)
2013 ³	3.8 (3.54–4.13)	3.8 (3.47–4.06)
2014	3.1 (2.91–3.37)	3.1 (2.88–3.32)
2015	3.6 (3.28–3.89)	3.6 (3.29–3.91)
2016	3.6 (3.35–3.88)	3.6 (3.31–3.85)
January–June 2017	3.3 (2.97–3.58)	3.2 (2.93–3.54)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 18–44, 45–64, and 65 and over.

³In 2013, the six psychological distress questions were moved to the Adult Selected Items section of the Sample Adult questionnaire. Differences observed in estimates based on 2012 and earlier National Health Interview Surveys (NHIS) and 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions in the NHIS questionnaire. Due to the higher-than-usual amount of missing data in the Adult Selected Items section, adults with missing data for any of the six psychological distress questions are excluded from the calculation of the serious psychological distress indicator for 2013 and later.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, NHIS transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 13.2. Percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–44, total	2.9	2.42–3.44
18–44, male	2.3	1.59–3.13
18–44, female	3.5	2.85–4.30
45–64, total	4.3	3.58–5.02
45–64, male	3.2	2.41–4.26
45–64, female	5.2	4.13–6.44
65 and over, total	2.4	1.82–3.16
65 and over, male	2.0	1.30–2.97
65 and over, female	2.8	1.92–3.82
18 and over (crude ¹), total	3.3	2.97–3.58
18 and over (crude ¹), male	2.5	2.13–3.02
18 and over (crude ¹), female	3.9	3.43–4.47
18 and over (age-adjusted ²), total	3.2	2.93–3.54
18 and over (age-adjusted ²), male	2.5	2.09–2.99
18 and over (age-adjusted ²), female	3.9	3.40–4.44

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 18–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. In 2013, the six psychological distress questions were moved to the Adult Selected Items section of the Sample Adult questionnaire. Differences observed in estimates based on 2012 and earlier National Health Interview Surveys (NHIS) and 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions in the NHIS questionnaire.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 13.3. Age-sex-adjusted percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	3.9	2.88–5.10
Not Hispanic or Latino, single race, white	3.2	2.88–3.64
Not Hispanic or Latino, single race, black	3.3	2.42–4.49

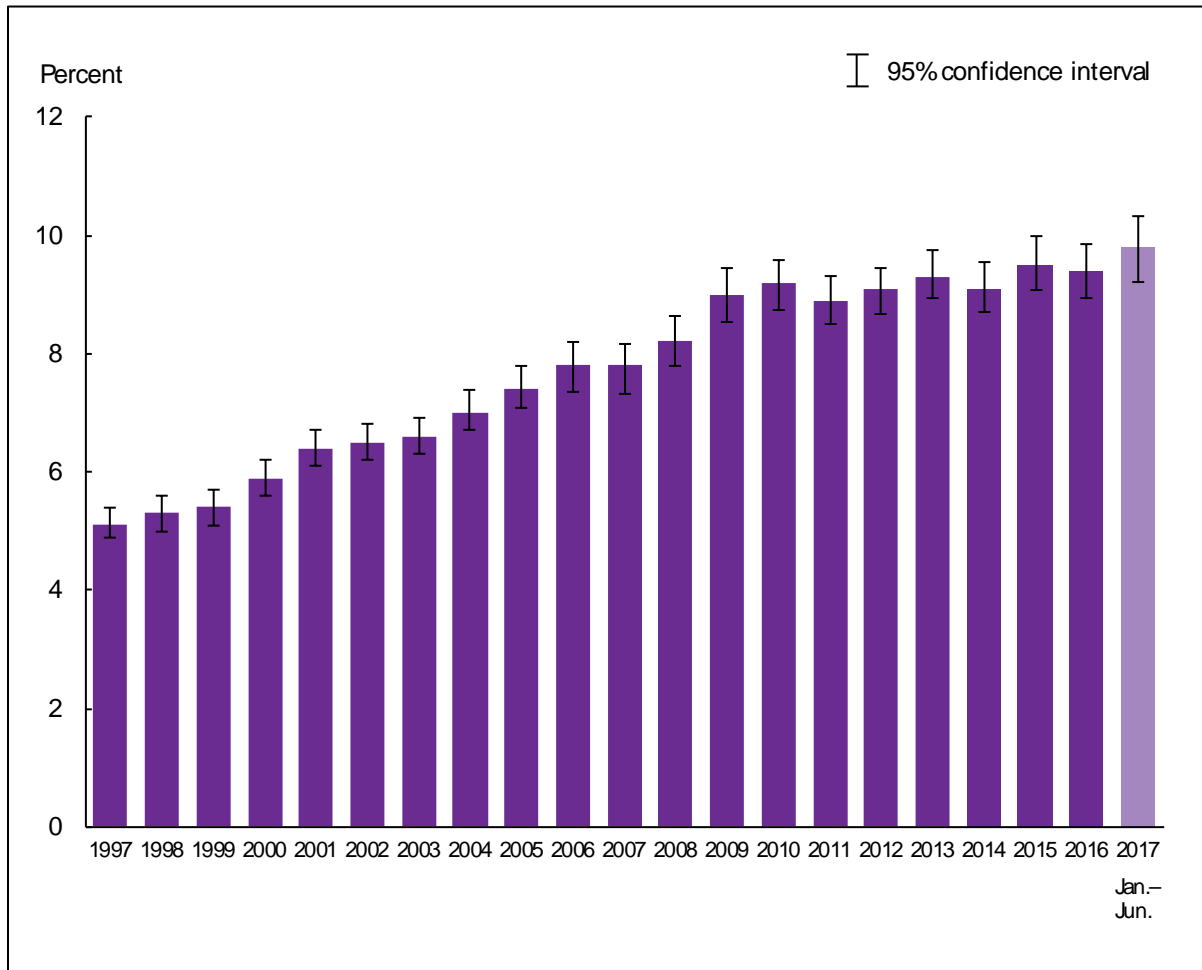
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and using five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. In 2013, the six psychological distress questions were moved to the Adult Selected Items section of the Sample Adult questionnaire. Differences observed in estimates based on 2012 and earlier National Health Interview Surveys (NHIS) and 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions in the NHIS questionnaire.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Diagnosed diabetes

Figure 14.1. Prevalence of diagnosed diabetes among adults aged 18 and over: United States, 1997– June 2017

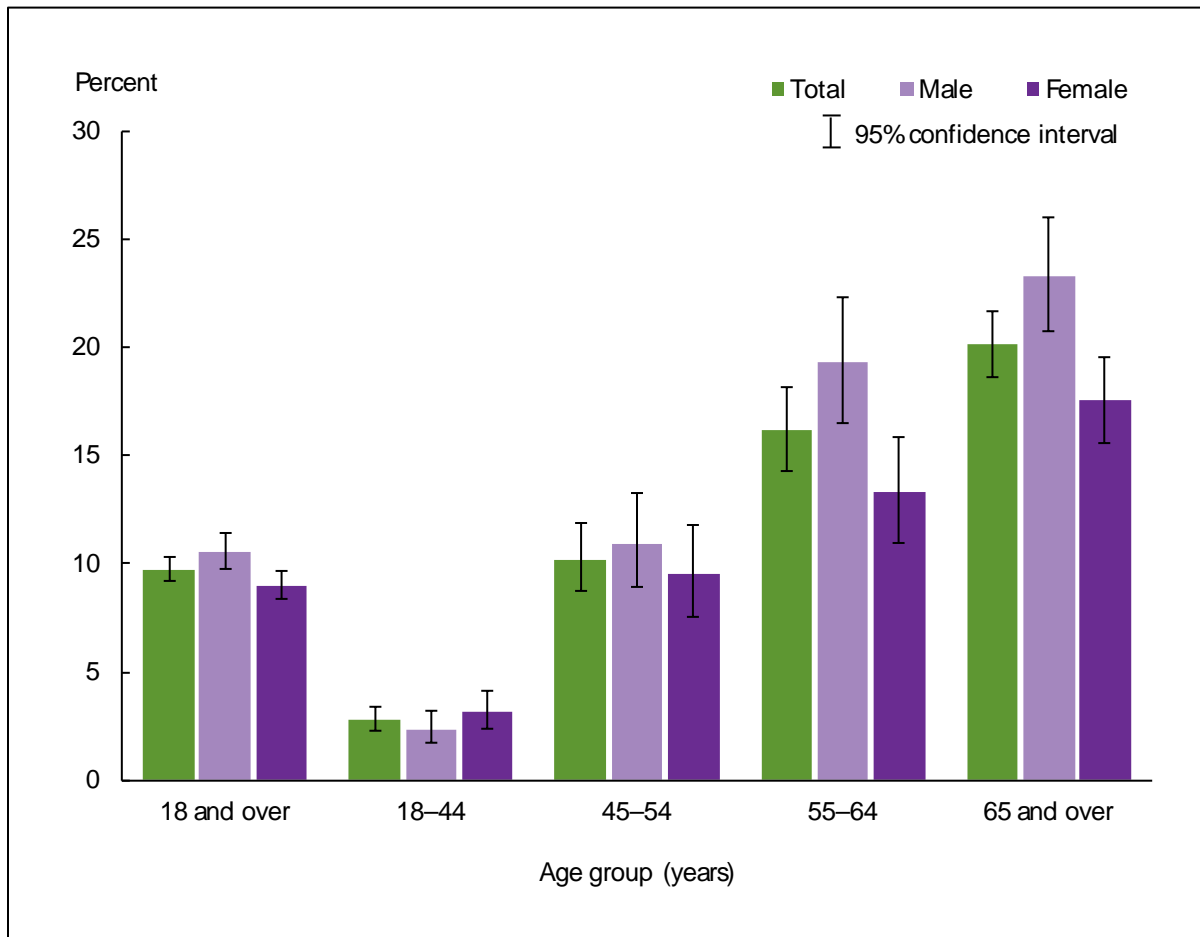


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Prevalence of diagnosed diabetes is based on self-report of ever having been diagnosed with diabetes by a doctor or other health professional. Persons reporting “borderline” diabetes status and women reporting diabetes only during pregnancy were not coded as having diabetes in the analyses. The analyses exclude persons with unknown diabetes status (about 0.1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

- For January–June 2017, 9.8% (95% confidence interval = 9.22%–10.31%) of adults aged 18 and over have been diagnosed with diabetes. This percentage was not significantly different from the 2016 estimate of 9.4%.
- The prevalence of diagnosed diabetes among adults aged 18 and over increased from 5.1% in 1997 to 9.2% in 2010, and then more slowly from 2010 through January–June 2017.

Figure 14.2. Prevalence of diagnosed diabetes among adults aged 18 and over, by age group and sex: United States, January–June 2017

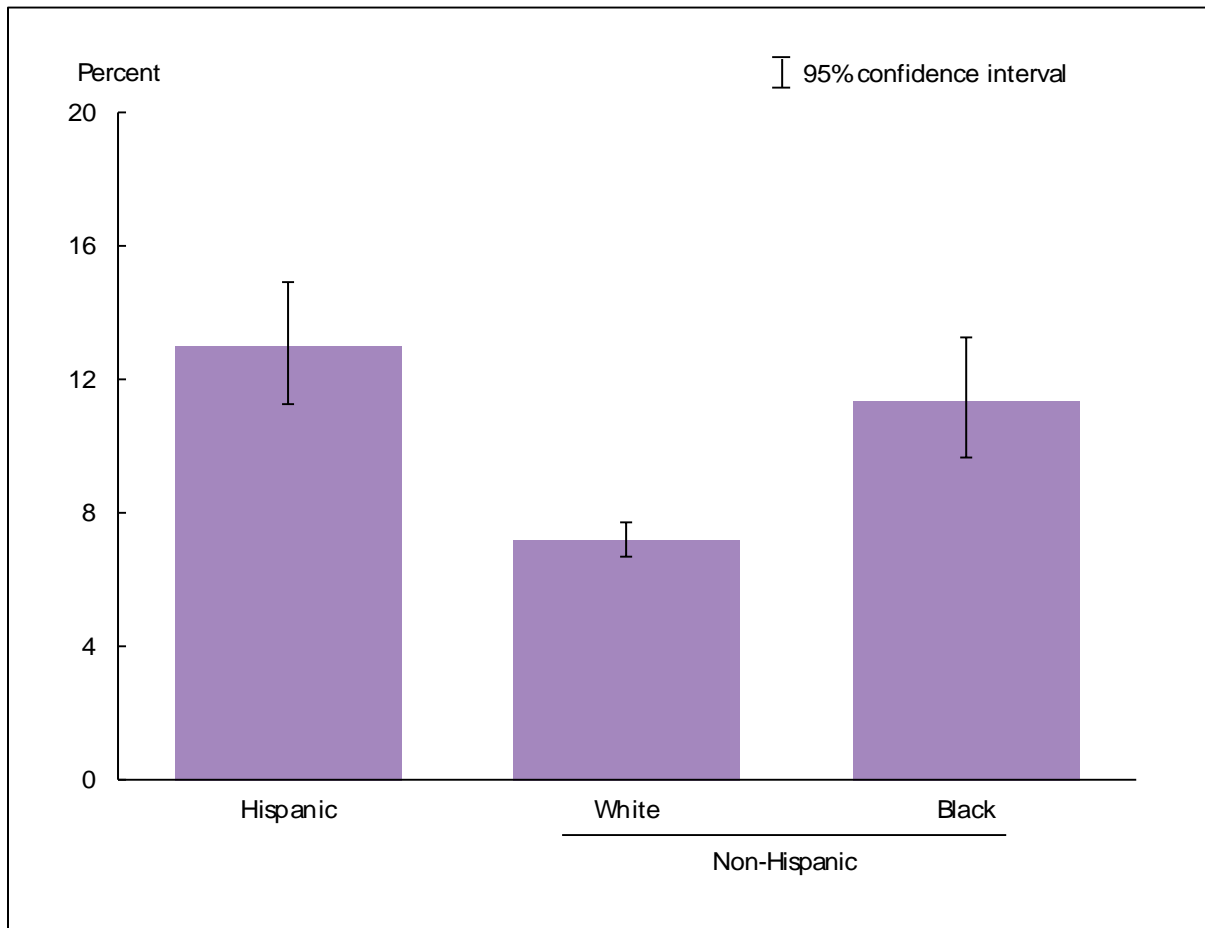


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Prevalence of diagnosed diabetes is based on self-report of ever having been diagnosed with diabetes by a doctor or other health professional. Persons reporting “borderline” diabetes status and women reporting diabetes only during pregnancy were not coded as having diabetes in the analyses. The analyses exclude the 0.1% of persons with unknown diabetes status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- For both sexes combined, the prevalence of diagnosed diabetes increased with age. Adults aged 65 and over (20.1%) were more than seven times as likely as those aged 18–44 (2.8%) to have been diagnosed with diabetes. Men aged 65 and over (23.3%) were more than nine times as likely as men aged 18–44 (2.4%) to have been diagnosed with diabetes, while women aged 65 and over (17.5%) were more than five times as likely as women aged 18–44 (3.2%) to have been diagnosed with diabetes.
- For adults aged 18 and over, 55–64 and 65 and over, women were less likely than men to have been diagnosed with diabetes.

Figure 14.3. Age-sex-adjusted prevalence of diagnosed diabetes among adults aged 18 and over, by race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Prevalence of diagnosed diabetes is based on self-report of ever having been diagnosed with diabetes by a doctor or other health professional. Persons reporting “borderline” diabetes status and women reporting diabetes only during pregnancy were not coded as having diabetes in the analyses. The analyses exclude the 0.1% of persons with unknown diabetes status. Estimates are age-sex-adjusted, using the projected 2000 U.S. population as the standard population and using four age groups: 18–44, 45–54, 55–64, and 65 and over. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

- The age-sex-adjusted prevalence of diagnosed diabetes was 13.0% for Hispanic adults, 7.2% for non-Hispanic white adults, and 11.4% for non-Hispanic black adults.
- The prevalence of diagnosed diabetes was lower among non-Hispanic white adults compared with Hispanic adults and non-Hispanic black adults. The prevalence of diagnosed diabetes among non-Hispanic black adults was not significantly different from Hispanic adults.

Data tables for Figures 14.1–14.3:

Data table for Figure 14.1. Prevalence of diagnosed diabetes among adults aged 18 and over: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	5.1 (4.9–5.4)	5.3 (5.1–5.6)
1998	5.3 (5.0–5.6)	5.4 (5.1–5.7)
1999	5.4 (5.1–5.7)	5.5 (5.2–5.8)
2000	5.9 (5.6–6.2)	6.0 (5.7–6.3)
2001	6.4 (6.1–6.7)	6.4 (6.1–6.7)
2002	6.5 (6.2–6.8)	6.5 (6.2–6.8)
2003	6.6 (6.3–6.9)	6.5 (6.2–6.9)
2004	7.0 (6.7–7.4)	6.9 (6.6–7.3)
2005	7.4 (7.10–7.78)	7.3 (6.95–7.57)
2006	7.8 (7.35–8.20)	7.6 (7.15–7.96)
2007	7.8 (7.33–8.18)	7.5 (7.08–7.87)
2008	8.2 (7.81–8.64)	7.8 (7.43–8.19)
2009	9.0 (8.54–9.45)	8.5 (8.09–8.93)
2010	9.2 (8.73–9.59)	8.6 (8.21–8.97)
2011	8.9 (8.51–9.30)	8.3 (7.90–8.61)
2012	9.1 (8.68–9.46)	8.3 (7.93–8.66)
2013	9.3 (8.95–9.75)	8.5 (8.14–8.87)
2014	9.1 (8.71–9.56)	8.2 (7.86–8.57)
2015	9.5 (9.07–10.02)	8.5 (8.10–8.89)
2016	9.4 (8.95–9.87)	8.4 (7.99–8.79)
January–June 2017	9.8 (9.22–10.31)	8.6 (8.16–9.15)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–44, 45–54, 55–64, and 65 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, Sample Adult Core component.

Data table for Figure 14.2. Prevalence of diagnosed diabetes among adults aged 18 and over, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
18–44, total	2.8	2.27–3.36
18–44, male	2.4	1.69–3.21
18–44, female	3.2	2.41–4.12
45–54, total	10.2	8.71–11.85
45–54, male	10.9	8.90–13.27
45–54, female	9.5	7.53–11.77
55–64, total	16.1	14.24–18.17
55–64, male	19.3	16.50–22.26
55–64, female	13.3	10.98–15.82
65 and over, total	20.1	18.59–21.67
65 and over, male	23.3	20.74–25.96
65 and over, female	17.5	15.61–19.53
18 and over (crude ¹), total	9.8	9.22–10.31
18 and over (crude ¹), male	10.6	9.74–11.42
18 and over (crude ¹), female	9.0	8.34–9.71
18 and over (age-adjusted ²), total	8.6	8.16–9.15
18 and over (age-adjusted ²), male	9.5	8.72–10.26
18 and over (age-adjusted ²), female	8.0	7.33–8.61

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–44, 45–54, 55–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Data table for Figure 14.3. Age-sex-adjusted prevalence of diagnosed diabetes among adults aged 18 and over, by race and ethnicity: United States, January–June 2017

Race and ethnicity	Percent ¹	95% confidence interval
Hispanic or Latino	13.0	11.25–14.96
Not Hispanic or Latino, single race, white	7.2	6.69–7.74
Not Hispanic or Latino, single race, black	11.4	9.65–13.26

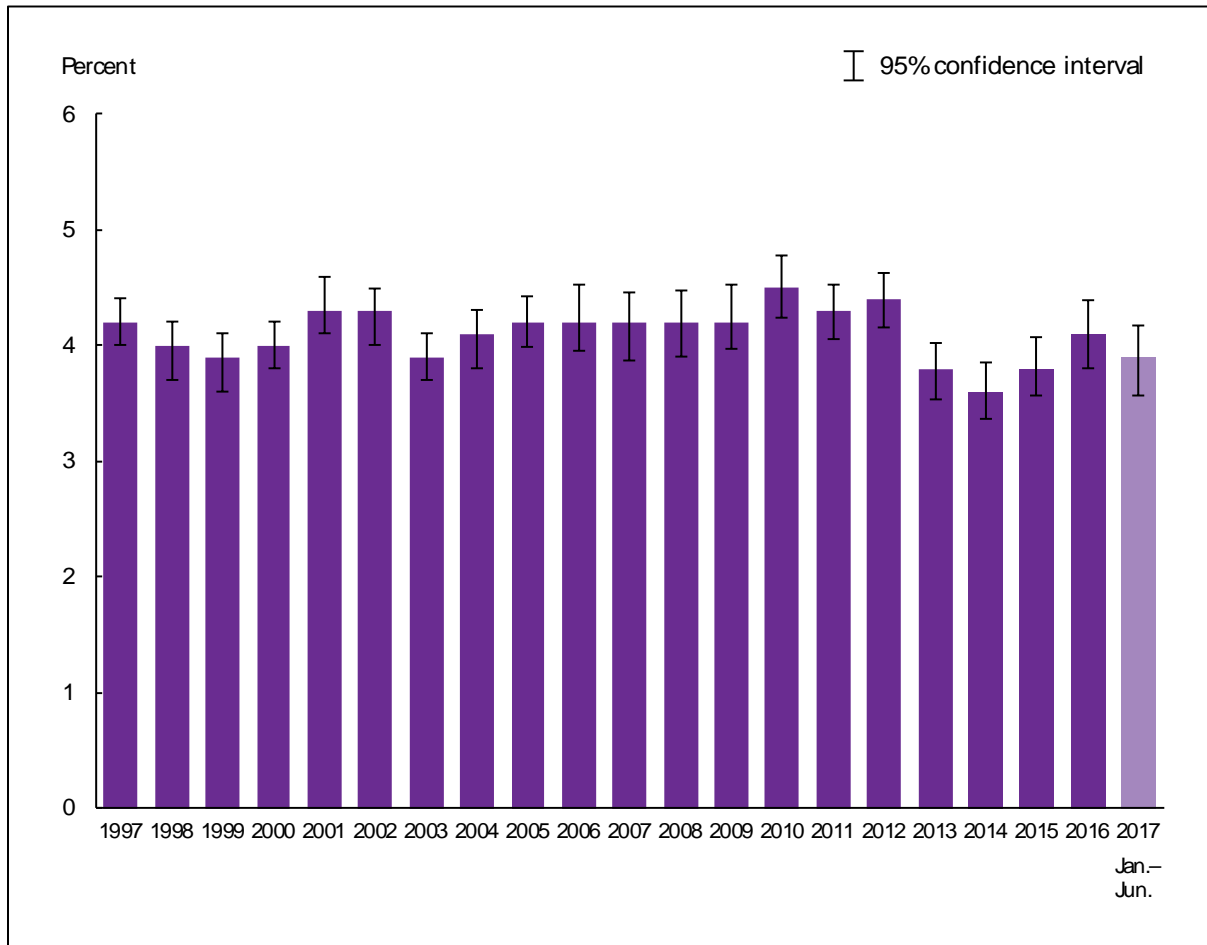
¹Estimates are age-sex-adjusted using the projected 2000 U.S. population as the standard population and four age groups: 18–44, 45–54, 55–64, and 65 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, Sample Adult Core component.

Asthma

Figure 15.1. Percentage of persons of all ages who experienced an asthma episode in the past 12 months: United States, 1997– June 2017

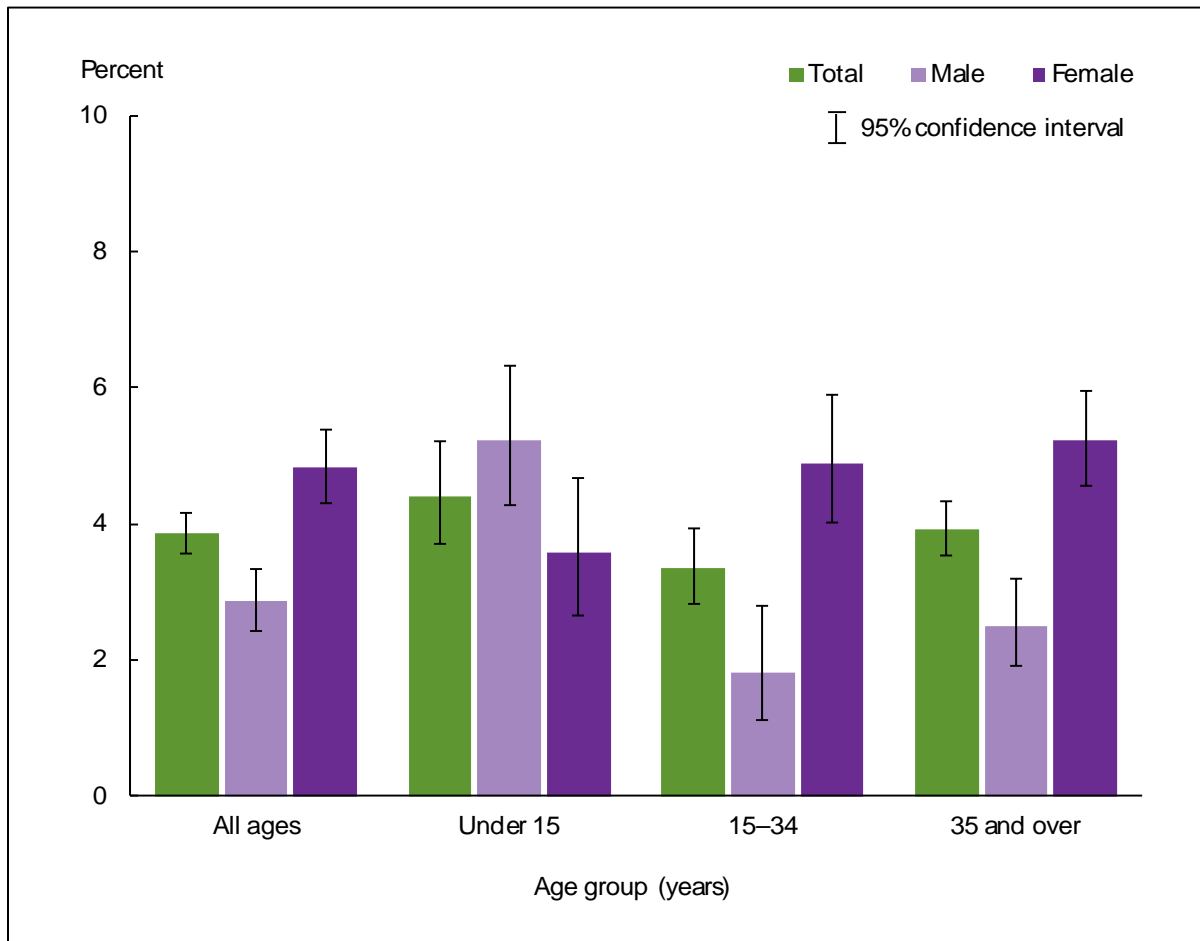


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child’s health. The analyses exclude people with unknown asthma episode status (about 0.1% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, combined Sample Adult and Sample Child Core components.

- For January–June 2017, the percentage of persons of all ages who experienced an asthma episode in the past 12 months was 3.9% (95% confidence interval = 3.57%–4.17%), which was not significantly different from the 2016 estimate of 4.1%.
- From 1997–June 2017, no clear trend was observed in the percentage of persons of all ages who experienced an asthma episode in the past 12 months.

Figure 15.2. Percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and sex: United States, January–June 2017

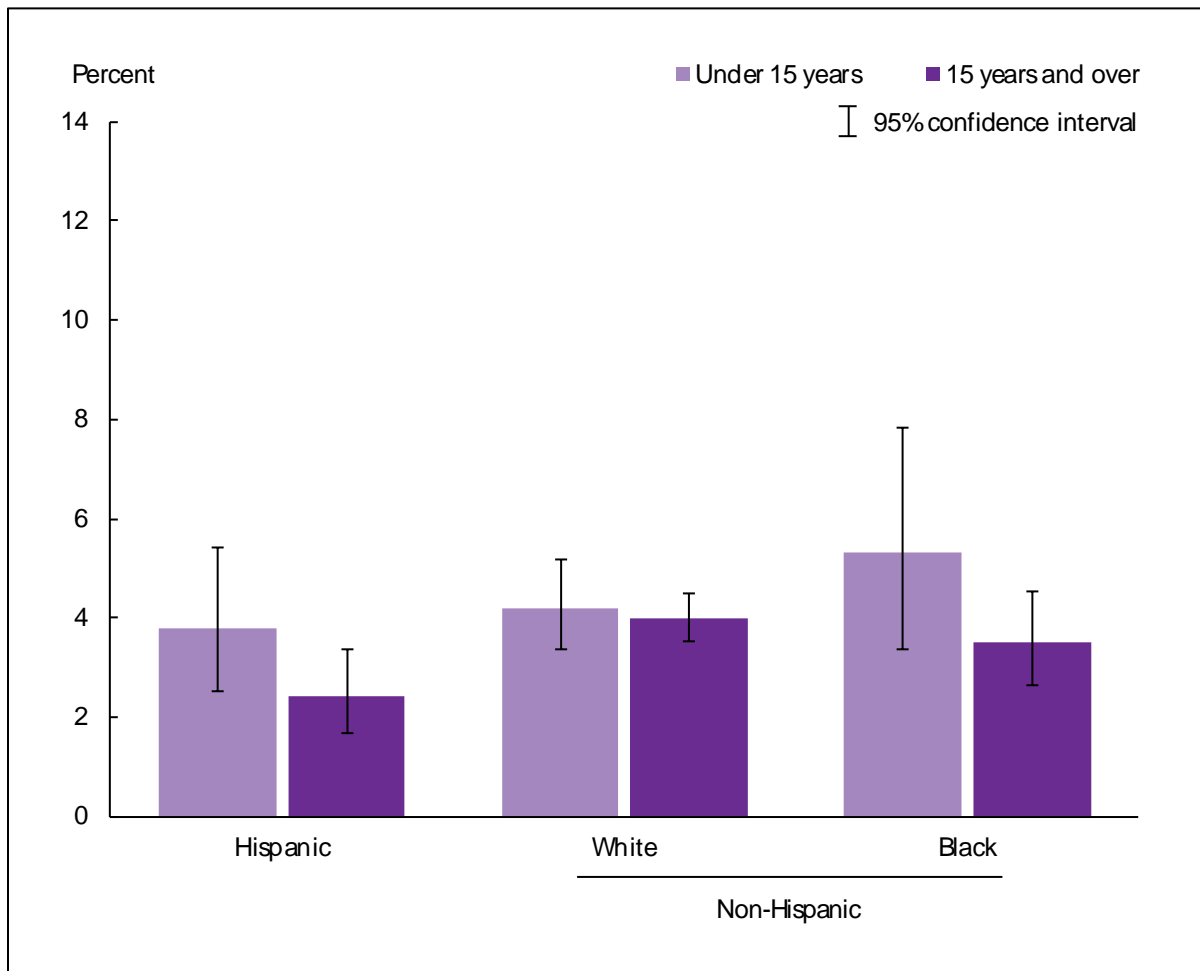


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child’s health. The analyses exclude the 0.2% of persons with unknown asthma episode status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- For males, the percentage of persons who had an asthma episode in the past 12 months was higher among children under age 15 years (5.2%) than among persons aged 15–34 (1.8%) and 35 and over (2.5%).
- For females, the percentage of persons who had an asthma episode in the past 12 months was lower among children under age 15 years (3.6%) than among persons aged 35 and over (5.2%). The difference in the percentage of persons who had an asthma episode in the past 12 months comparing females aged 15–34 (4.9%) with those 35 and over was not significant.
- For persons of all ages and those 15–34, and 35 and over, the percentage of persons who had an asthma episode in the past 12 months was higher among females than among males. For children under age 15 years, the percentage of boys who had an asthma episode in the past 12 months was higher than the percentage of girls who had an asthma episode in the past 12 months.

Figure 15.3. Sex-adjusted percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and race and ethnicity: United States, January–June 2017

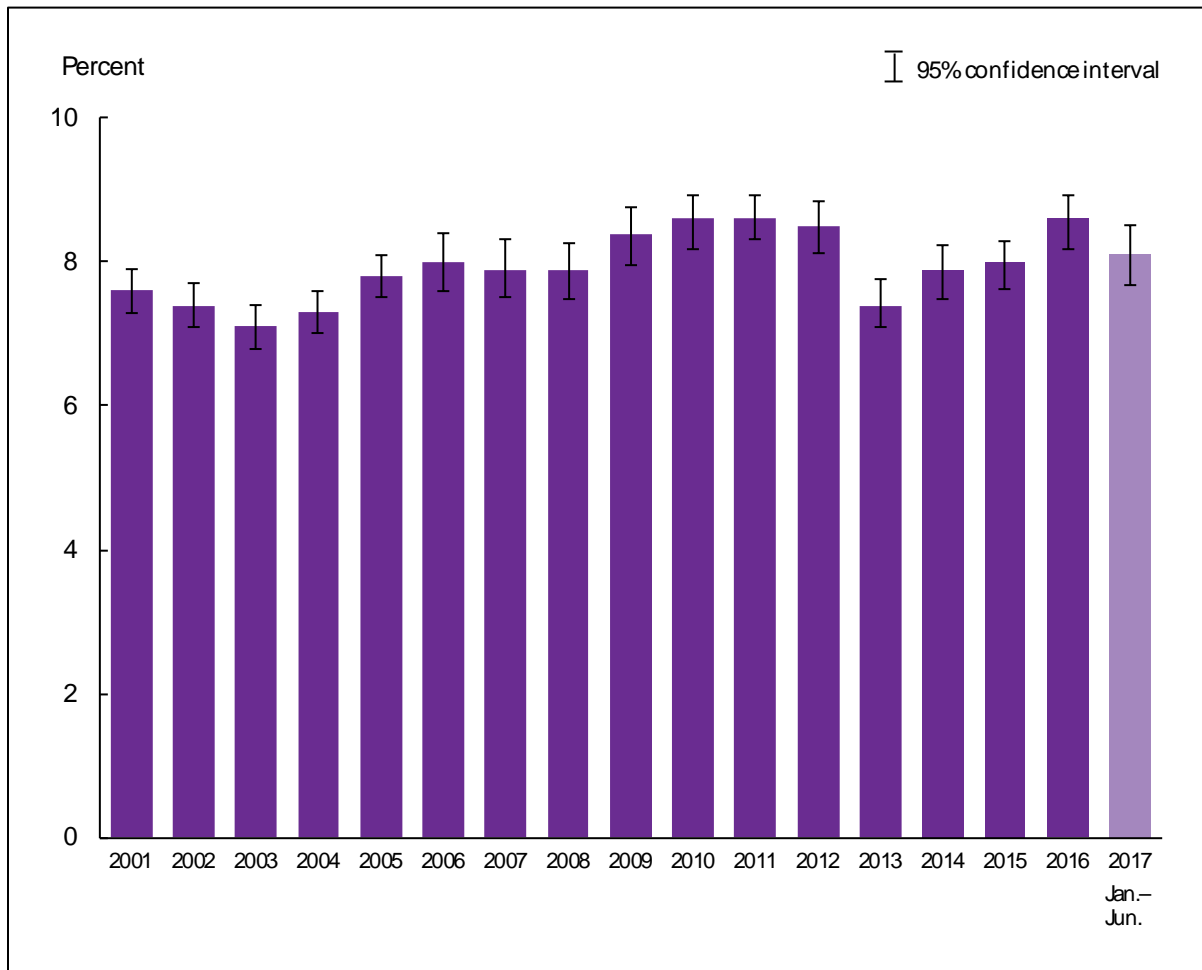


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. The analyses exclude the less than 0.2% of persons with unknown asthma episode status. Additional estimates of asthma episodes in the past 12 months among persons with current asthma are provided in the Data table for Figure 15.3. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- For children under age 15 years, the sex-adjusted percentage who had an asthma episode in the past 12 months was 3.8% for Hispanic children, 4.2% for non-Hispanic white children, and 5.3% for non-Hispanic black children.
- For persons aged 15 and over, the sex-adjusted percentage who had an asthma episode in the past 12 months was 2.4% for Hispanic persons, 4.0% for non-Hispanic white persons, and 3.5% for non-Hispanic black persons.
- After adjustment for sex, there was no significant difference in the percentage of children who had an asthma episode in the past 12 months by race and ethnicity groups for children under age 15 years.
- After adjustment for sex, the percentage of persons who had an asthma episode in the past 12 months was lower among Hispanic persons compared with non-Hispanic white persons and non-Hispanic black persons for those aged 15 and over.

Figure 15.4. Prevalence of current asthma among persons of all ages: United States, 2001–June 2017

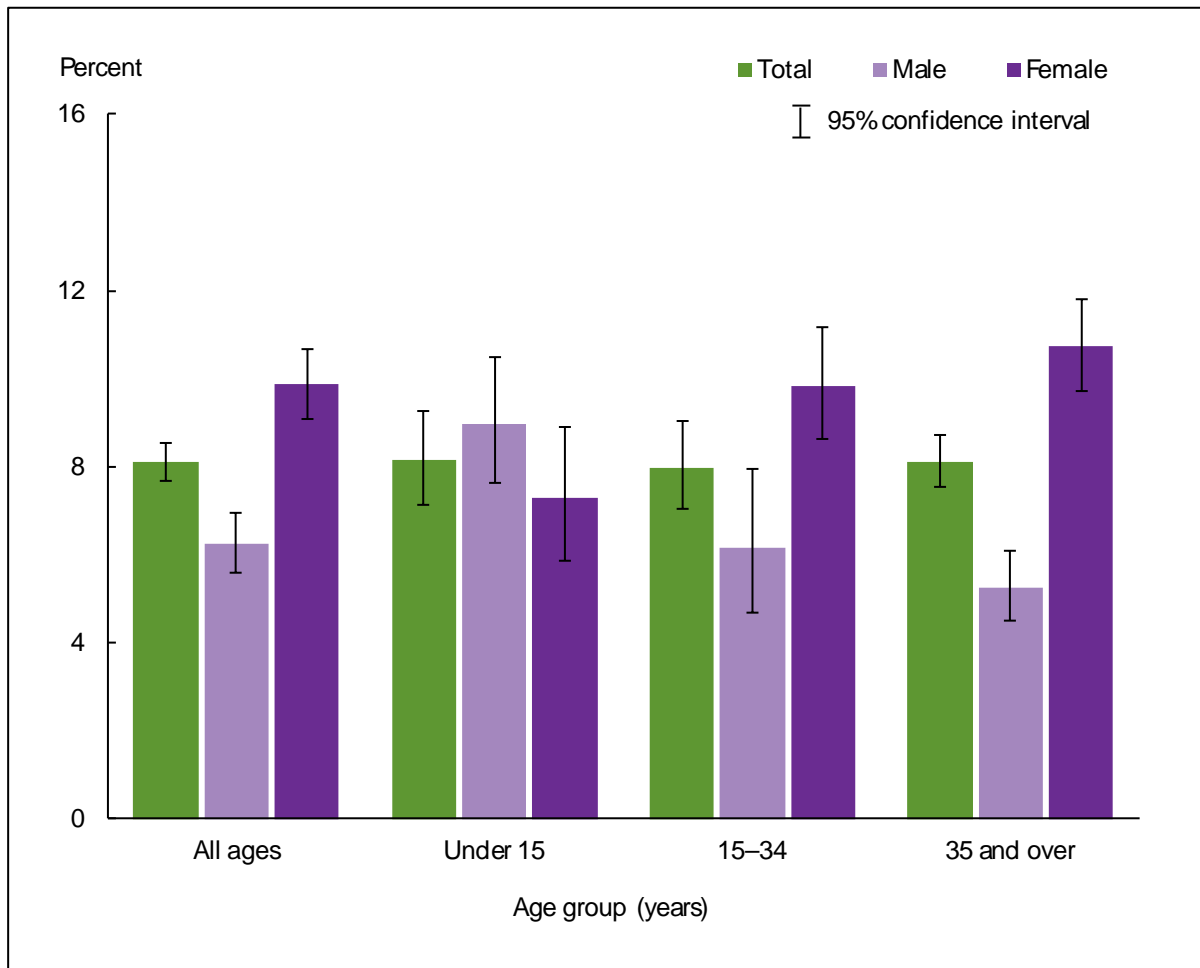


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning in 2001, respondents were asked about current asthma in addition to the question regarding asthma episodes. Information on current asthma is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child’s health. The analyses exclude persons with unknown current asthma status (about 0.2% of respondents each year). See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 2001–June 2017, combined Sample Adult and Sample Child Core components.

- For January–June 2017, 8.1% (95% confidence interval = 7.68%–8.52%) of persons of all ages currently had asthma. This was lower than, but not significantly different from the 2016 estimate of 8.6%.
- No consistent pattern in the prevalence of current asthma existed between 2001 and January–June 2017.

Figure 15.5. Prevalence of current asthma among persons of all ages, by age group and sex: United States, January–June 2017

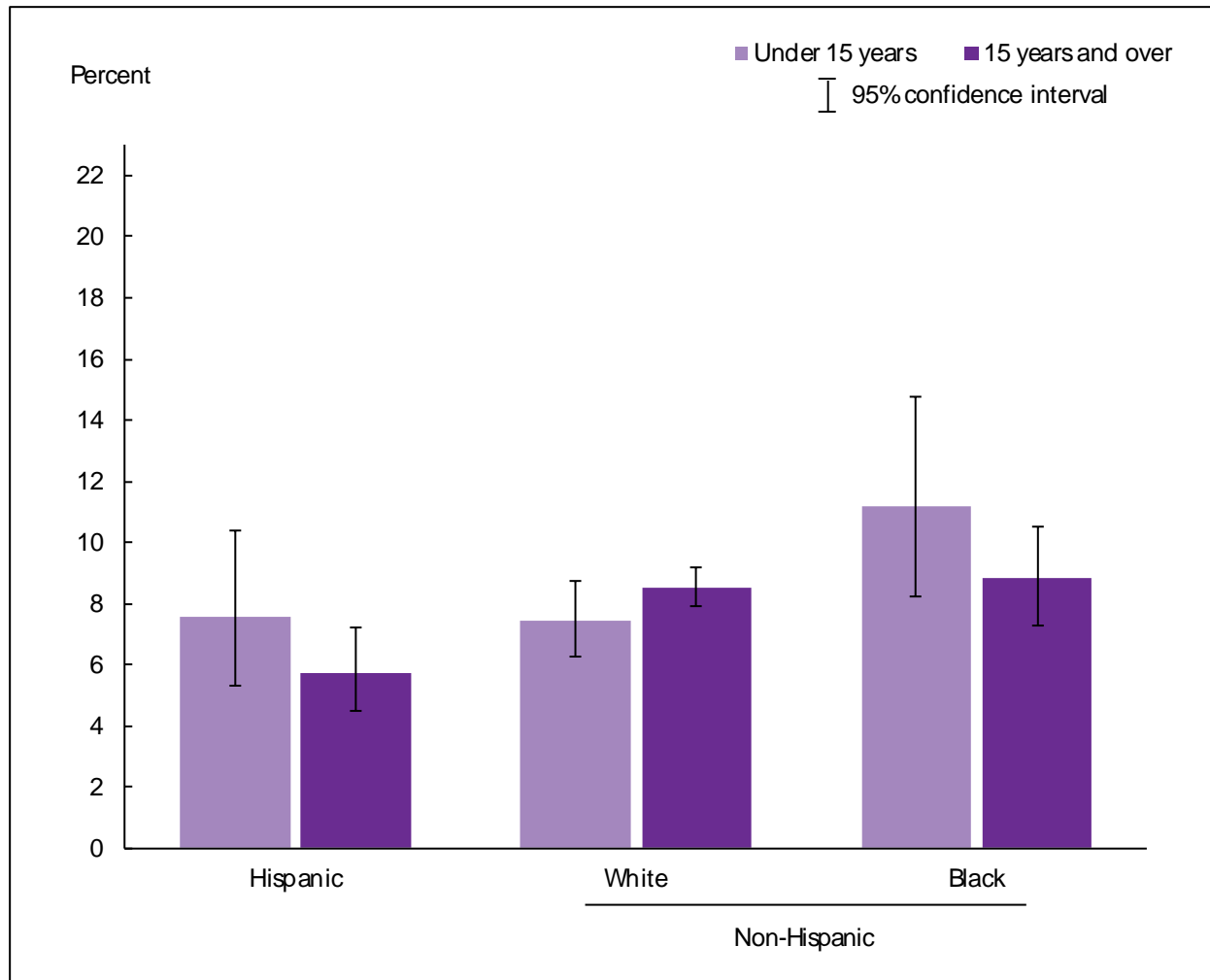


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on current asthma is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child’s health. The analyses exclude the 0.3% of persons with unknown current asthma status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- For males, those under age 15 years (9.0%) were more likely to currently have asthma compared with males aged 15–34 (6.2%) and 35 and over (5.3%).
- For females, those under age 15 years (7.3%) were less likely to currently have asthma compared with females aged 15–34 (9.8%) and those 35 and over (10.7%).
- For persons of all ages, and for persons 15–34 and 35 and over, the prevalence of current asthma was higher among females than males. For children under age 15 years, the prevalence of current asthma among males was higher than, but not significantly different from, females.

Figure 15.6. Sex-adjusted prevalence of current asthma among persons of all ages, by age group and race and ethnicity: United States, January–June 2017



NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on current asthma is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child’s health. The analyses exclude the 0.3% of persons with unknown current asthma status. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

- For children under age 15 years, the sex-adjusted prevalence of current asthma was higher among non-Hispanic black children (11.2%) compared with non-Hispanic white children (7.4%). The difference in the prevalences of current asthma among Hispanic children (7.6%) compared to non-Hispanic black children was not significant.
- For persons aged 15 and over, the sex-adjusted prevalence of current asthma was lower among Hispanic persons (5.8%) compared with non-Hispanic white persons (8.5%) and non-Hispanic black persons (8.8%). The prevalence of current asthma among non-Hispanic black persons aged 15 and over was not significantly different from non-Hispanic white persons.

Data tables for Figures 15.1–15.6:

Data table for Figure 15.1. Percentage of persons of all ages who experienced an asthma episode in the past 12 months: United States, 1997– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
1997	4.2 (4.0–4.4)	4.2 (3.9–4.4)
1998	4.0 (3.7–4.2)	3.9 (3.7–4.2)
1999	3.9 (3.6–4.1)	3.9 (3.6–4.1)
2000	4.0 (3.8–4.2)	4.0 (3.8–4.2)
2001	4.3 (4.1–4.6)	4.3 (4.1–4.5)
2002	4.3 (4.0–4.5)	4.3 (4.0–4.5)
2003	3.9 (3.7–4.1)	3.9 (3.7–4.1)
2004	4.1 (3.8–4.3)	4.1 (3.8–4.3)
2005	4.2 (3.99–4.43)	4.2 (4.00–4.44)
2006	4.2 (3.96–4.52)	4.3 (3.98–4.54)
2007	4.2 (3.87–4.46)	4.2 (3.88–4.47)
2008	4.2 (3.91–4.48)	4.2 (3.93–4.50)
2009	4.2 (3.97–4.52)	4.3 (3.99–4.54)
2010	4.5 (4.24–4.77)	4.5 (4.25–4.78)
2011	4.3 (4.06–4.52)	4.3 (4.08–4.54)
2012	4.4 (4.15–4.63)	4.4 (4.17–4.65)
2013	3.8 (3.53–4.02)	3.8 (3.55–4.04)
2014	3.6 (3.36–3.85)	3.6 (3.37–3.88)
2015	3.8 (3.57–4.07)	3.8 (3.58–4.08)
2016	4.1 (3.80–4.39)	4.1 (3.81–4.40)
January–June 2017	3.9 (3.57–4.17)	3.9 (3.57–4.18)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 0–14, 15–34, and 35 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 1997–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 15.2. Percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
Under 15, total	4.4	3.70–5.21
Under 15, male	5.2	4.27–6.31
Under 15, female	3.6	2.66–4.67
15–34, total	3.3	2.82–3.94
15–34, male	1.8	1.10–2.79
15–34, female	4.9	4.02–5.88
35 and over, total	3.9	3.54–4.33
35 and over, male	2.5	1.92–3.18
35 and over, female	5.2	4.55–5.94
All ages (crude ¹), total	3.9	3.57–4.17
All ages (crude ¹), male	2.9	2.42–3.34
All ages (crude ¹), female	4.8	4.31–5.39
All ages (age-adjusted ²), total	3.9	3.57–4.18
All ages (age-adjusted ²), male	2.9	2.46–3.37
All ages (age-adjusted ²), female	4.8	4.24–5.34

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 0–14, 15–34, and 35 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 15.3. Sex-adjusted percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and race and ethnicity: United States, January–June 2017

Age (years) and race and ethnicity	All persons	All persons with current asthma
	Sex-adjusted percent ¹ (95% confidence interval)	
Under 15, Hispanic or Latino	3.8 (2.52–5.41)	49.9 (36.02–63.87)
Under 15, not Hispanic or Latino, single race, white	4.2 (3.37–5.17)	56.1 (46.51–65.35)
Under 15, not Hispanic or Latino, single race, black	5.3 (3.38–7.82)	48.3 (30.11–66.74)
15 and over, Hispanic or Latino	2.4 (1.69–3.36)	41.4 (31.88–51.50)
15 and over, not Hispanic or Latino, single race, white	4.0 (3.54–4.51)	46.2 (41.49–50.91)
15 and over, not Hispanic or Latino, single race, black	3.5 (2.63–4.52)	33.0 (25.74–40.98)

¹Estimates for all persons are presented. Estimates are sex-adjusted using the projected 2000 U.S. population as the standard population.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 15.4. Prevalence of current asthma among persons of all ages: United States, 2001– June 2017

Year	Crude ¹ percent (95% confidence interval)	Age-adjusted ² percent (95% confidence interval)
2001	7.6 (7.3–7.9)	7.6 (7.3–7.9)
2002	7.4 (7.1–7.7)	7.4 (7.1–7.7)
2003	7.1 (6.8–7.4)	7.1 (6.8–7.4)
2004	7.3 (7.0–7.6)	7.3 (7.1–7.7)
2005	7.8 (7.50–8.10)	7.8 (7.51–8.11)
2006	8.0 (7.61–8.41)	8.0 (7.62–8.43)
2007	7.9 (7.50–8.31)	7.9 (7.51–8.33)
2008	7.9 (7.48–8.27)	7.9 (7.51–8.30)
2009	8.4 (7.97–8.76)	8.4 (7.99–8.78)
2010	8.6 (8.19–8.94)	8.6 (8.20–8.95)
2011	8.6 (8.31–8.93)	8.6 (8.32–8.95)
2012	8.5 (8.12–8.86)	8.5 (8.15–8.88)
2013	7.4 (7.09–7.76)	7.4 (7.11–7.77)
2014	7.9 (7.49–8.24)	7.9 (7.52–8.27)
2015	8.0 (7.62–8.30)	8.0 (7.63–8.32)
2016	8.6 (8.17–8.94)	8.5 (8.17–8.93)
January–June 2017	8.1 (7.68–8.52)	8.1 (7.68–8.52)

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 0–14, 15–34, and 35 and over.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with 2012 data, the National Health Interview Survey transitioned to weights derived from the 2010 census. For 2003–2011 data, weights were derived from the 2000 census. In this Early Release, estimates for 2000–2002 were recalculated using weights derived from the 2000 census. For 1997–1999 data, weights were derived from the 1990 census. See [Technical Notes](#) for more details.

DATA SOURCE: NCHS, National Health Interview Survey, 2001–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 15.5. Prevalence of current asthma among persons of all ages, by age group and sex: United States, January–June 2017

Age (years) and sex	Percent	95% confidence interval
Under 15, total	8.2	7.14–9.26
Under 15, male	9.0	7.65–10.47
Under 15, female	7.3	5.88–8.89
15–34, total	8.0	7.03–9.04
15–34, male	6.2	4.68–7.96
15–34, female	9.8	8.62–11.16
35 and over, total	8.1	7.54–8.72
35 and over, male	5.3	4.50–6.08
35 and over, female	10.7	9.71–11.79
All ages (crude ¹), total	8.1	7.68–8.52
All ages (crude ¹), male	6.2	5.59–6.96
All ages (crude ¹), female	9.9	9.10–10.65
All ages (age-adjusted ²), total	8.1	7.68–8.52
All ages (age-adjusted ²), male	6.3	5.65–7.01
All ages (age-adjusted ²), female	9.7	8.98–10.53

¹Crude estimates are presented.

²Estimates are age-adjusted using the projected 2000 U.S. population as the standard population and three age groups: 0–14, 15–34, and 35 and over.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

Data table for Figure 15.6. Sex-adjusted prevalence of current asthma among persons of all ages, by age group and race and ethnicity: United States, January–June 2017

Age (years) and race and ethnicity	Percent ¹	95% confidence interval
Under 15, Hispanic or Latino	7.6	5.34–10.41
Under 15, not Hispanic or Latino, single race, white	7.4	6.25–8.74
Under 15, not Hispanic or Latino, single race, black	11.2	8.24–14.75
15 and over, Hispanic or Latino	5.8	4.52–7.20
15 and over, not Hispanic or Latino, single race, white	8.5	7.90–9.21
15 and over, not Hispanic or Latino, single race, black	8.8	7.31–10.50

¹Estimates are sex-adjusted using the projected 2000 U.S. population as the standard population.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

DATA SOURCE: NCHS, National Health Interview Survey, January–June 2017, combined Sample Adult and Sample Child Core components.

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Appendix. January–June 2017 National Health Interview Survey Questions Used to Define Selected Health Measures

Alphanumeric codes refer directly to the question on the January–June 2017 National Health Interview Survey that was used to define the health measure.

Lack of health insurance and type of coverage

Information from follow-up questions such as plan name(s) was used to reassign insurance status and type of coverage to avoid misclassification.

FHI.050 The next questions are about health insurance. Include health insurance obtained through employment or purchased directly as well as government programs like Medicare and Medicaid that provide Medical care or help pay medical bills.

[Are you/Is anyone in the family] covered by any kind of health insurance or some other kind of health care plan?

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

FHI.070 What kind of health insurance or health care coverage [do you/does person] have? INCLUDE those that pay for only one type of service (nursing home care, accidents, or dental care). EXCLUDE private plans that only provide extra cash while hospitalized.

- (01) Private health insurance
- (02) Medicare
- (03) Medi-Gap
- (04) Medicaid
- (05) SCHIP/ CHIP ([State] Children's Health Insurance Program)
- (06) Military health care (TRICARE/VA/CHAMP-VA)
- (07) Indian Health Service
- (08) State-sponsored health plan
- (09) Other government program
- (10) Single service plan (e.g., dental, vision, prescriptions)
- (11) No coverage of any type
- (97) Refused
- (99) Don't know

FHI.072 People covered by Medicare have a card that looks like this. [Are you/Is person] covered by Medicare?

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

FHI.073 There is a program called Medicaid that pays for health care for persons in need. In this State it is also called [State name]. [Are you/Is person] covered by Medicaid?

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

Usual place to go for medical care

AAU.020 Is there a place that you USUALLY go to when you are sick or need advice about your health?

AND

CAU.020 Is there a place that [child] USUALLY goes when [he/she] is sick or you need advice about [his/her] health?

- (1) Yes
- (2) There is NO place
- (3) There is MORE THAN ONE place
- (7) Refused
- (9) Don't know

AAU.030 [If only one place] What kind of place is it – a clinic, doctor's office, emergency room, or some other place? [If more than one place] What kind of place do you go to most often – a clinic, doctor's office, emergency room, or some other place?

AND

CAU.030 [If only one place] What kind of place is it—a clinic, doctor's office, emergency room, or some other place? [If more than one place] What kind of place does [child] go to most often—a clinic, doctor's office, emergency room, or some other place?

- (1) Clinic or health center
- (2) Doctor's office or HMO
- (3) Hospital emergency room
- (4) Hospital outpatient department
- (5) Some other place
- (6) Doesn't go to one place most often
- (7) Refused
- (9) Don't know

Failure to obtain needed medical care

FAU.030 DURING THE PAST 12 MONTHS, was there any time when [you/someone in the family] needed medical care, but did not get it because [you/the family] couldn't afford it?

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

Receipt of influenza vaccination

AAU.310 DURING THE PAST 12 MONTHS, have you had a flu vaccination? A flu vaccination is usually given in the fall and protects against influenza for the flu season.

CFI.005 DURING THE PAST 12 MONTHS, has [child] had a flu vaccination? A flu vaccination is usually given in the fall and protects against influenza for the flu season.

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

Receipt of pneumococcal vaccination

AAU.320 Have you EVER had a pneumonia shot? This shot is usually given only once or twice in a person's lifetime and is different from the flu shot. It is also called the pneumococcal vaccine.

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

Obesity

AHB.190 How tall are you without shoes?

- (02–07) 2–7 feet
- (97) Refused
- (99) Don't know
- (M) Metric

AND

- (00–11) 0–11 inches
- (97) Refused
- (99) Don't know

OR

- (0–2) 0–2 meters
- (7) Refused
- (9) Don't know

AND

- (000–241) 0–241 centimeters
- (997) Refused
- (999) Don't know

AHB.200 How much do you weigh without shoes?

- (050–500) 50–500 pounds
- (997) Refused
- (999) Don't know
- (M) Metric

OR

- (022–226) 22–226 kilograms
- (997) Refused
- (999) Don't know

Leisure–time physical activity

The next questions are about physical activities (exercise, sports, physically active hobbies...) that you may do in your LEISURE time.

AHB.090 How often do you do VIGOROUS leisure–time physical activities for AT LEAST 10 MINUTES that cause HEAVY sweating or LARGE increases in breathing or heart rate?

Field Representative: Read if necessary: How many times per day, per week, per month, or per year do you do these activities?

Number of vigorous leisure–time physical activities

- (000) Never
- (001–995) 1–995 time(s)
- (996) Unable to do this type activity
- (997) Refused
- (999) Don't know

Time period for vigorous leisure–time physical activities

- (0) Never
- (1) Per day
- (2) Per week
- (3) Per month
- (4) Per year
- (6) Unable to do this activity
- (7) Refused
- (9) Don't know

AHB.100 About how long do you do these vigorous leisure–time physical activities each time?

Number for length of vigorous leisure–time physical activities

- (001–995) 1–995
- (997) Refused
- (999) Don't know

Time period for length of vigorous leisure–time physical activities

- (1) Minutes
- (2) Hours
- (7) Refused
- (9) Don't know

AHB.110 How often do you do LIGHT OR MODERATE LEISURE–TIME physical activities for AT LEAST 10 MINUTES that cause ONLY LIGHT sweating or a SLIGHT to MODERATE increase in breathing or heart rate?

Field Representative: If necessary, prompt with: How many times per day, per week, per month, or per year do you do these activities?

Number of light or moderate leisure–time physical activities

- (000) Never
- (001–995) 1–995 time(s)
- (996) Unable to do this type activity
- (997) Refused
- (999) Don't know

Time period for light or moderate leisure–time physical activities

- (0) Never
- (1) Per day
- (2) Per week
- (3) Per month
- (4) Per year
- (6) Unable to do this activity
- (7) Refused
- (9) Don't know

AHB.120 About how long do you do these light or moderate leisure–time physical activities each time?

Number for length of light or moderate leisure–time physical activities

- (001–995) 1–995
- (997) Refused
- (999) Don't know

Time period for length of light or moderate leisure–time physical activities

- (1) Minutes
- (2) Hours
- (7) Refused
- (9) Don't know

AHB.130 How often do you do LEISURE–TIME physical activities specifically designed to STRENGTHEN your muscles such as lifting weights or doing calisthenics? (Include all such activities even if you have mentioned them before.)

Number of times

- (000) Never
- (001–995) 1–995 time(s)
- (996) Unable to do this type activity
- (997) Refused
- (999) Don't know

Time period for times per day, per week, per month, or per year

- (0) Never
- (1) Per day
- (2) Per week
- (3) Per month
- (4) Per year
- (6) Unable to do this activity
- (7) Refused
- (9) Don't know

Current cigarette smoking

AHB.010 Have you smoked at least 100 cigarettes in your ENTIRE LIFE?

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

AHB.030 Do you NOW smoke cigarettes every day, some days or not at all?

- (1) Every day
- (2) Some days
- (3) Not at all
- (7) Refused
- (9) Don't know

Alcohol consumption

AHB.150 In your ENTIRE LIFE, have you had at least 12 drinks of any type of alcoholic beverage?

- (1) Yes
- (2) No
- (7) Refused
- (9) Don't know

AHB.180 In the PAST YEAR, on how many DAYS did you have [5 or more/4 or more] drinks of any alcoholic beverage?

NOTE: From 1997–2013, both men and women were asked about days in which they had 5 or more drinks of any alcoholic beverage. Starting in 2014, this question was changed; men were still asked about days in which they had 5 or more drinks of any alcoholic beverage, but women were asked about days in which they had 4 or more drinks of any alcoholic beverage.

Number of days

(000) Never/None
(001–365) 1–365 days
(997) Refused
(999) Don't know

Time period for days per week, per month, or per year

(0) Never/None
(1) Per week
(2) Per month
(3) Per year
(7) Refused
(9) Don't know

Human immunodeficiency virus testing

ASI.400 Except for tests you may have had as part of blood donations, have you ever been tested for HIV?

(1) Yes
(2) No
(7) Refused
(9) Don't know

General health status

FHS.500 Would you say [your/person's] health in general is excellent, very good, good, fair, or poor?

(1) Excellent
(2) Very good
(3) Good
(4) Fair
(5) Poor
(7) Refused
(9) Don't know

Personal care needs

FHS.070 Because of a physical, mental, or emotional problem, [do you/does anyone in the family] need the help of other persons with PERSONAL CARE NEEDS, such as eating, bathing, dressing, or getting around inside this home?

(1) Yes
(2) No
(7) Refused
(9) Don't know

Serious psychological distress

ASI.390 During the PAST 30 DAYS, how often did you feel

...So sad that nothing could cheer you up?

...Nervous?

...Restless or fidgety?

...Hopeless?

...That everything was an effort?

...Worthless?

(1) ALL of the time

(2) MOST of the time

(3) SOME of the time

(4) A LITTLE of the time

(5) NONE of the time

(7) Refused

(9) Don't know

Diagnosed diabetes

ACN.160 Other than during pregnancy, have you EVER been told by a doctor or health professional that you have diabetes or sugar diabetes?/Have you EVER been told by a doctor or health professional that you have diabetes or sugar diabetes?

(1) Yes

(2) No

(3) Borderline or prediabetes

(7) Refused

(9) Don't know

Asthma

ACN.080 Have you EVER been told by a doctor or other health professional that you had asthma?

AND

CHS.080 Has a doctor or other health professional EVER told you that [child] has asthma?

(1) Yes

(2) No

(7) Refused

(9) Don't know

ACN.085 Do you still have asthma?

AND

CHS.085 Does [child] still have asthma?

(1) Yes

(2) No

(7) Refused

(9) Don't know

ACN.090 DURING THE PAST 12 MONTHS, have you had an episode of asthma or an asthma attack?

AND

CHS.090 DURING THE PAST 12 MONTHS, has [child] had an episode of asthma or an asthma attack?

(1) Yes

(2) No

(7) Refused

(9) Don't know

Technical Notes

Data source

Data used to produce this Early Release are derived from the three main components of the National Health Interview Survey (NHIS) from 1997 through June 2017: (a) the Family Core, which collects information on all family members in each household; (b) the Sample Child Core, which collects information on one randomly selected child (the “sample child”) in each family with a child; and (c) the Sample Adult Core, which collects information from one randomly selected adult (the “sample adult”) aged 18 or over in each family. Data analyses for the January–June 2017 NHIS were based on 39,480 persons in the Family Core, 13,577 adults in the Sample Adult Core, and 4,532 children in the Sample Child Core. Visit the NHIS website at <https://www.cdc.gov/nchs/nhis.htm> for more information on the design, content, and use of NHIS.

Calibration of weights to independent population estimates

Estimates were calculated using the NHIS sample weights, which were calibrated to 2010 census-based population estimates for sex, age, and race and ethnicity of the U.S. civilian noninstitutionalized population beginning with 2012 NHIS data. NHIS weights were calibrated to 2000 census-based population estimates for NHIS data between 2003 and 2011. In Early Release reports prior to September 2003, the weights for 1997–2002 NHIS data were derived from 1990 census-based population estimates. The impact of the transition from 1990 census-based population estimates to 2000 census-based population estimates was assessed for data from the 2000–2002 NHIS by comparing estimates that used the 1990 census-based weights with those that used the 2000 census-based weights. The results were presented in Tables II and III in the Appendix of the September 2003 Early Release report on key health indicators (13). Although the changes for all selected measures were no more than 1 percentage point, the 2000–2002 estimates for all measures were recalculated beginning with the 2003 Early Release report on key health indicators, up through the present report, using weights derived from the 2000 census. The NHIS data weighting procedure is described in more detail at: https://www.cdc.gov/nchs/data/series/sr_02/sr02_130.pdf (1997–2005 NHIS) and https://www.cdc.gov/nchs/data/series/sr_02/sr02_165.pdf (2006–2015 NHIS).

Implementation of a new sample design

A new sample design was implemented with the 2016 NHIS. Sample areas were reselected to take account of changes in the distribution of the U.S. population since 2006, when the previous sample design was first implemented; commercial address lists were used as the main source of addresses, rather than field listing; and the oversampling procedures for black, Hispanic, and Asian persons that were a feature of the previous sample design were not implemented in 2016. Some of the differences between estimates for 2016 and later and estimates for earlier years may be attributable to the new sample design. Visit the NCHS website at <https://www.cdc.gov/nchs/nhis.htm> for more information on the design, content, and use of NHIS.

Estimation procedures

NCHS creates weights for each calendar quarter of the NHIS sample. The NHIS data weighting procedures are described in more detail at: https://www.cdc.gov/nchs/data/series/sr_02/sr02_130.pdf (1997–2005 NHIS) and https://www.cdc.gov/nchs/data/series/sr_02/sr02_165.pdf (2006–2015 NHIS). Because the estimates for January–June 2017 are being released prior to final data editing and final weighting, they should be considered preliminary and may differ slightly from estimates that will be made later using the final 2017 data files. Estimates from the 1997–2016 NHIS are based on previous reports and are therefore also based on preliminary data files and not final data files. Differences between estimates calculated using preliminary data files and final data files are typically less than 0.1 percentage point. For 2008, differences may be as high as 1.5 percentage points because a larger-than-usual number of records were removed for insufficient quality in the final data files. As mentioned previously, estimates for 2000–2002 were recalculated in this report using the 2000 census-based weights that were not included in the final files. See “Lack of Health Insurance Coverage and Type of Coverage” (Section 1 in this report) for details on special data editing for health insurance variables. For NHIS announcements and more detailed information, visit the NHIS website at: <https://www.cdc.gov/nchs/nhis.htm>.

Point estimates, and estimates of their variances, were calculated using the SUDAAN software package (RTI International, Research Triangle Park, NC) to account for the complex sample design of NHIS. The Taylor series linearization method was chosen for variance estimation. The June 2007 Early Release report used final in-house design variables for estimating variance. Early Release reports other than the June 2007 report use Early Release interim design variables to estimate variance.

Beginning with the 2017 NHIS, all estimates shown meet the NCHS standards of reliability as specified in *National Center for Health Statistics Data Presentation Standards for Proportions* (14), unless otherwise noted. Estimates based on the 2016 and earlier NHIS meet the former NCHS standard of having less than or equal to 30% relative standard error, unless otherwise noted. Point estimates in some figures and tables are accompanied by 95% confidence intervals. Beginning with the June 2006 release, confidence intervals are shown to two decimal places to improve the precision of further calculations. Starting with the 2017 NHIS, two-sided 95% confidence intervals are calculated using the Clopper-Pearson method adapted for complex surveys by Korn and Graubard (14). For the 2016 and earlier NHIS, two-sided 95% confidence intervals are calculated using the Wald method.

Significance testing

Trends were assessed by using Joinpoint regression (15), which characterizes trends as joined linear segments. A joinpoint is the year at which two segments with different slopes meet. Joinpoint software uses statistical criteria to determine the fewest number of segments necessary to characterize a trend and the year(s) when segments begin and end. A limitation of using aggregated data and Joinpoint software alone for trend analysis of the National Health Interview Survey is that this approach does not account for year-to-year correlation or use the recommended degrees of freedom for statistical testing. Trends from 1997 through the first 6 months of 2017 were also evaluated using logistic regression analysis.

Differences between percentages or rates for current estimates were evaluated by using two-sided significance tests at the 0.05 level. Terms such as “higher than,” “less than,” “more likely,” and “less likely” indicate a statistically significant difference, unless otherwise noted. Terms such as “similar” and “no difference” indicate that the statistics being compared were not significantly different. Lack of comment regarding the difference between any two statistics does not necessarily mean that the difference was tested and found to be not significant. Because of small sample sizes, estimates based on less than 1 year of data may have large variances, and caution should be used in analyzing these estimates. Patterns for such estimates may change as more data become available.

Adjustment for age and sex

Age-sex-adjusted percentages were calculated for three race and ethnicity groups. For the prevalence of obesity, only age-adjusted sex-specific percentages are presented because the race and ethnicity patterns in obesity prevalence differ by sex. Similarly, only sex-adjusted age-specific prevalences are presented for the asthma measures because the race and ethnicity patterns in asthma episodes and current asthma differ by age. Direct standardization was used for adjustment, using the projected 2000 U.S. population as the standard population (16) and using age groups that varied depending on the impact of age on the specific measure. Rates presented are crude rates unless otherwise stated.

Race and ethnicity categories

The race and ethnicity categories for data years beginning in 2003 are defined using the 1997 *Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity* (17) promulgated by the U.S. Office of Management and Budget (OMB). Subsequent to the Early Releases based on data through 2002, the categories “non-Hispanic white” and “non-Hispanic black” were changed to “not Hispanic white, single race” and “not Hispanic black, single race.” The term “Hispanic” was changed to “Hispanic or Latino,” and “black” was changed to “black or African American.” However, the text and figures in this report use shorter terms, for conciseness. For example, the category “not Hispanic or Latino, white, single race” in the tables is referred to as “non-Hispanic white” in the text. Race and ethnicity-specific estimates for years prior to 2003, released previously, were based on the 1977 OMB standards and therefore are not strictly comparable with estimates for 2003 and later. However, the changes in the OMB standards have little effect on the health estimates reported here. See Tables XI and XII in *Health, United States, 2003* (18) for a comparison of estimates for cigarette smoking and private health insurance coverage using both the 1977 and 1997 OMB standards. In addition, beginning with the 2003 NHIS (first incorporated in the September 2004 Early Release), NHIS editing procedures were changed to maintain consistency with U.S. Census Bureau procedures for collecting and editing data on race and ethnicity. These changes reflect the elimination of “other race” as a separate race response. This response category is treated as missing, and race is imputed if this was the only race response. In cases where “other race” was mentioned along with one or more OMB race groups, the “other race” response is dropped and the OMB race group information is retained. This change is not expected to have a substantial effect on the estimates.

Health insurance

Additional estimates for health insurance can be found in the Early Release Program’s quarterly report, *Health Insurance Coverage: Early Release of Estimates From the National Health Interview Survey, 2016* (1).

Data on health insurance status were edited using a system of logic checks. Information from follow-up questions, such as plan name(s), were used to reassign insurance status and type of coverage to avoid misclassification. The resulting estimates of persons without health insurance coverage are generally 0.1–0.3 percentage point lower than those based on the editing procedures used for the final data files.

To reduce potential errors in reporting Medicare and Medicaid status, two questions were added to the health insurance section of NHIS beginning in the third quarter of 2004. Persons aged 65 and over not reporting Medicare coverage were asked explicitly about Medicare coverage. Persons under age 65 with no reported coverage were asked explicitly about Medicaid coverage. For the present report, estimates that exclude the two additional questions are labeled “Method 1,” and estimates that include the additional questions are labeled “Method 2.” Estimates for 1997–2003 in this report are generated using Method 1. Estimates for 2004 are presented using Method 2 in figures and both Method 1 and Method 2 in tables. Estimates for 2005 and beyond are calculated using Method 2. Statements about trends or comparisons for 1997–2003 are based on estimates calculated using Method 1. Statements about trends or comparisons for 2004–present are based on estimates calculated using Method 2. Statements about trends over groups of years from before 2004 to 2004 or later take both methodologies into account. Conclusions regarding trends are not made in cases where using one method yields a different result than the same trend analysis using the other method. Note that although both methods may yield the same conclusion, the extent of the increasing or decreasing trend may be larger using one method than with the other method.

Estimates for 2004 were calculated using both methods to assess the effect of adopting Method 2. From July through December 2004 (third and fourth quarters combined), with the use of Method 2, the estimates (weighted) for persons without health insurance coverage decreased, from 10.4% to 9.9% for persons under age 18, from 19.7% to 19.5% for adults aged 18–64, and from 1.7% to 1.2% for persons aged 65 and over. Also, with the use of Method 2, the estimates for public coverage increased, from 28.1% to 29.6% for children under age 18, from 11.3% to 11.4% for adults aged 18–64, and from 89.5% to 93.3% for persons aged 65 and over. The two additional questions had no impact on the estimates for private coverage. Additional information on the impact of these two questions on health insurance estimates can be found in “Impact of Medicare and Medicaid Probe Questions on Health Insurance Estimates from the National Health Interview Survey, 2004” (19).

Influenza vaccination

Starting in 1997, respondents were asked if they received a flu shot during the past 12 months. Beginning in 2003, respondents were also asked if they received a flu vaccine sprayed in their nose during the past 12 months. From August 2010 through 2011, questions were modified to reflect that, for the first time, the seasonal influenza vaccine included protection for the 2009 pandemic H1N1 virus. For children aged 6 months–8 years, who require two doses of vaccine to be fully vaccinated if they have not previously received seasonal influenza vaccination, these questions do not indicate whether the vaccination was a child’s first or second dose.

NHIS Early Release influenza vaccination estimates have changed since 1997. Starting in 1997, Early Release influenza vaccination estimates covered receipt of an influenza shot only. Starting in 2005, Early Release influenza vaccination estimates covered the seasonal influenza shot or seasonal intranasal influenza vaccination. Influenza vaccination estimates based on data collected during 2009 and January through July of 2010 included only seasonal and not 2009 H1N1 pandemic influenza vaccination. Estimates based on data collected in quarters three and four of 2010 and quarters one and two of 2011 could be affected, to an unknown extent, by reports of H1N1 immunization without seasonal flu immunization for the period when the two were administered separately (October 2009–May 2010). An error in calculating influenza vaccination rates occurred from the first quarter of 2005 through the first quarter of 2007. The effect of this error on estimates was small. Compared with the original estimates, corrected estimates are slightly higher, usually by no more than 0.3 percentage point. The error has been corrected for all estimates in this Early Release and had no perceptible impact on the graphs.

Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage, and these estimates may differ (20; estimates available from: <https://www.cdc.gov/flu/fluview>). Responses to the influenza vaccination questions used to calculate the influenza vaccination estimates presented in this report (see [Appendix](#)) cannot be used to determine when, during the preceding 12 months, the subject received the influenza vaccination. In addition, estimates are subject to recall error, which will vary depending on when the question is asked, because the receipt of an influenza vaccination is seasonal. Advisory Committee on Immunization Practices (ACIP) recommendations regarding who should receive an influenza vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (4–8). NHIS questions are not always detailed enough to determine whether ACIP recommendations have been met.

An influenza vaccine shortage occurred during the 2004–2005 influenza season (4). Delays in the availability of influenza shots also occurred in fall 2000 and, to a lesser extent, in fall 2001 (4–7).

Alcohol consumption

From 1997–2013, the alcohol consumption estimates presented are for the percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, regardless of sex. However, in 2014 the survey questions were changed; male and female respondents were asked about a different quantity of drinks consumed in a day in the past year. As a result, the estimates presented for 2014 and later are for men aged 18 and over who had five or more drinks in 1 day at least once in the past year and women aged 18 and over who had four or more drinks in 1 day at least once in the past year. Differences observed in estimates for women based on the 2014 and later NHIS and 2013 and earlier NHIS may be partially or fully attributable to these changes in the survey questions on alcohol consumption.

Human immunodeficiency virus (HIV) testing

From 1997 to 2010, the question on HIV testing was located in the AIDS Knowledge and Attitudes (ADS) section of the NHIS questionnaire. The question was preceded by questions that asked respondents whether they had donated blood to a blood bank since March 1985 and, if they had, whether they had donated blood during the past 12 months. The wording of the HIV testing question depended on the respondent's answers to the blood donation questions. Respondents who had donated blood were instructed to exclude tests they may have had as part of blood donations before they were asked if they had ever been tested for HIV. Respondents who had not donated blood were only asked if they had ever been tested for HIV. The ADS section was the last section fielded in the Sample Adult Core questionnaire and was preceded by the Adult Access to Health Care and Utilization (AAU) section.

In 2011, the ADS section was dropped from NHIS, with only the HIV testing question retained. The question was added to the AAU section and is preceded by questions on health insurance. Because no questions were asked about blood donations prior to the HIV testing question, the wording of the question was the same for all respondents. They were instructed to exclude tests they may have had as part of blood donations before they were asked if they had ever been tested for HIV. The AAU section is the last section fielded in the Sample Adult Core questionnaire, and the HIV testing question is the last question in the AAU section. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially or fully attributable to this change in placement of the HIV testing question on the NHIS questionnaire.

In 2013, the HIV testing question was removed from the AAU section and was added to the Adult Selected Items (ASI) section, where it is preceded by questions on sexual orientation, worries related to financial matters, sleep, and psychological distress. Because no questions were asked about blood donations prior to the HIV testing question, the wording of the question was the same for all respondents. They were instructed to exclude tests they may have had as part of blood donations before they were asked if they had ever been tested for HIV. Beginning in 2013, the ASI section is the last section fielded in the Sample Adult Core questionnaire, and the HIV testing question is the second-to-last question in the ASI section (followed by a question asking adults who had not been tested why they had not been tested). Differences observed in estimates based on the 2012 and earlier NHIS and the 2013 and later NHIS may be partially or fully attributable to this change in placement of the HIV testing question on the NHIS questionnaire.

Serious psychological distress

From 1997 to 2012, the six questions on psychological distress were located in the Adult Conditions (ACN) section of the Sample Adult Core questionnaire. The ACN section was preceded by the Adult Socio–Demographic (ASD) section. In 2013, the six psychological distress questions were moved from the ACN section and added to the Adult Selected Items (ASI) section, where they were preceded by questions on sexual orientation, worries related to financial matters, and sleep. Beginning in 2013, the ASI section is the last section fielded in the Sample Adult Core questionnaire. Due to the higher than usual amount of missing data in the ASI section, adults with missing data for any of the six psychological distress questions are excluded from the calculation of the serious psychological distress indicator for 2013 and later. Differences observed in estimates based on the 2012 and earlier NHIS and the 2013 and later NHIS may be partially or fully attributable to this change in placement of the six psychological distress questions on the NHIS questionnaire.

Early Release of NHIS Estimates

The NCHS Early Release Program updates and releases timely estimates by means of three Early Release reports. This Early Release of Selected Estimates (21) and a separate health insurance report (1) are released approximately 5 to 6 months after National Health Interview Survey (NHIS) data collection has been completed for each quarter. A third report on wireless substitution (2) is released mid-year and again at the end of the year. New measures may be

added as work continues and in response to changing data needs. Feedback on the Early Release mechanism and on the estimates is welcome ([e-mail](#)).

Announcements about Early Releases, other new data releases, publications, or corrections related to NHIS will be sent to members of the National Health Interview Survey (NHIS) researchers electronic mailing list. To join, visit: <https://www.cdc.gov/subscribe.html>.

A list of previous Early Release Program reports is available from: <https://www.cdc.gov/nchs/nhis/releases.htm>.

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