



About This Early Release

Early Release of Selected Estimates Based on Data From the **2012 National Health Interview Survey**

(Released 06/18/13)

In this release, the Centers for Disease Control and Prevention's (CDC) National Center for Health Statistics (NCHS) updates estimates for 15 selected health measures based on data from the 2012 National Health Interview Survey (NHIS) and presents estimates from 1997 through 2011 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 in June and December 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, these files are made available three times: in about September and December during the data collection year, and in about March following the data collection year. 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 in 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

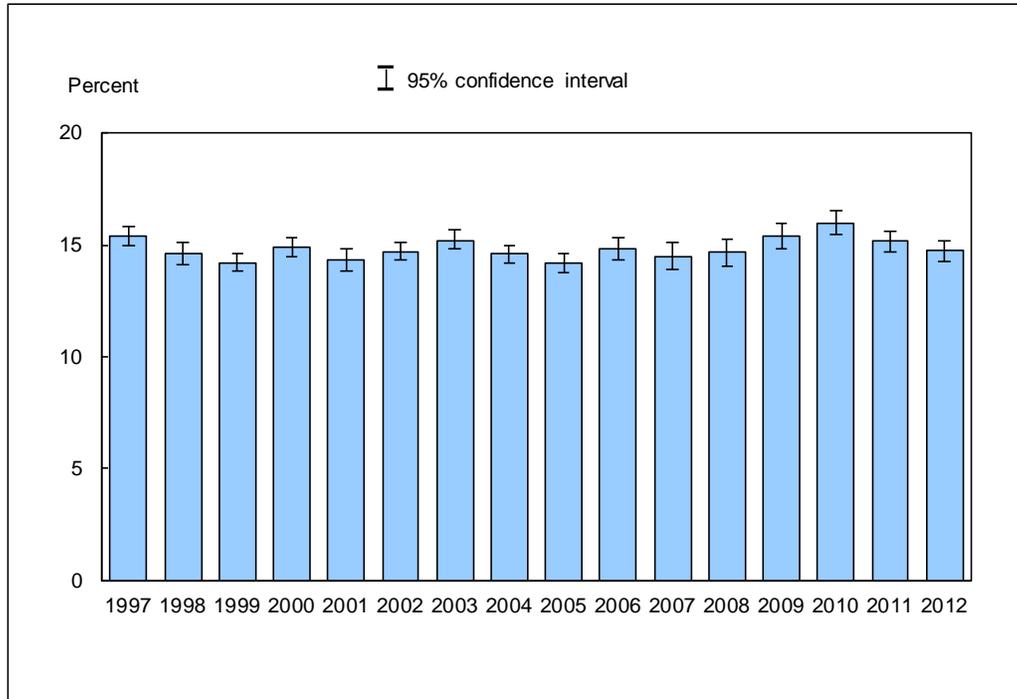
influenza vaccination, receipt of pneumococcal vaccination, obesity, leisure-time physical activity, current smoking, alcohol consumption, human immunodeficiency virus (HIV) testing, general health status, personal care needs, serious psychological distress, diagnosed diabetes, and asthma episodes and current asthma. Three of these measures (lack of health insurance coverage, leisure-time physical activity, and current 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 2012 for the total population, followed by figures and tables showing estimates by age group and sex, based on data from the 2012 NHIS. Also, estimates (which may be adjusted by age, sex, or both, where appropriate) are provided for three race/ethnicity groups—Hispanic; non-Hispanic white, single race; and non-Hispanic black, single race—using data from the 2012 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, along with 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 an [Appendix](#). [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, estimation procedures, significance testing, adjustment for age and sex, race/ethnicity categories, health insurance, influenza vaccination, and HIV testing.

Estimates based on 2012 data were calibrated to 2010-census-based population estimates for sex, age, and race/ethnicity of the U.S. civilian noninstitutionalized population. More information on weighting can be found in the [Technical Notes](#).

Figure 1.1. Percentage of persons of all ages without health insurance coverage at the time of interview: United States, 1997–2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

- For 2012, the percentage uninsured at the time of interview was 14.7% (95% confidence interval = 14.29%–15.21%), which was not significantly different from the 2011 estimate of 15.1%.
- The percentage uninsured at the time of interview was lowest in 1999 and 2005 (14.2%) and highest in 2010 (16.0%). The percentage uninsured decreased from 16.0% in 2010 to 14.7% in 2012.

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 (CHIP), 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 and keyword searches. 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 points lower than those based on the editing procedures used for the final data files. • The analyses excluded persons with unknown health insurance status (about 1% of respondents each year). • See [Technical Notes](#) for more details.

Table 1.1a. Number of persons without health insurance coverage at the time of interview, by age group: United States, 1997–2012

| Year | Number in millions: All ages | Number in millions: Under 65 years | Number in millions: 18–64 years | Number in millions: Under 18 years |
|-------------------------------|------------------------------------|--|---------------------------------------|--|
| 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 |

Table 1.1b. Percentage of persons without health insurance coverage at the time of interview, by age group: United States, 1997–2012

| Year | Percent (95% confidence interval): All ages | Crude percent (95% confidence interval): Under 65 years | Age-adjusted percent (95% confidence interval): Under 65 years | Percent (95% confidence interval): 18–64 years | Percent (95% confidence interval): Under 18 years |
|----------------------------------|--|--|---|---|--|
| 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) |

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

- For 2012, the percentage uninsured at the time of interview was 16.9% (45.2 million) for persons under age 65, 20.9% (40.3 million) for persons aged 18–64, and 6.6% (4.9 million) for children under age 18 (Table 1.1a and 1.1b).
- For children under age 18, the percentage uninsured at the time of interview decreased from 13.9% in 1997 to 8.9% in 2005, then decreased again from 8.9% in 2008 to 6.6% in 2012 (Table 1.1b).
- For adults aged 18–64, the percentage uninsured at the time of interview was higher in 2012 (20.9%) than in 1997 (18.9%). The percentage was lowest in 1999 (17.8%) and highest in 2010 (22.3%).
- For all age groups, the percentage uninsured at the time of interview decreased from 2010 to 2012.



¹ In the third quarter of 2004, two additional 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 (noted as Method 1) and with the responses to these new questions (noted as 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 (CHIP), 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 and keyword searches. 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 points lower than those based on the editing procedures used for the final data files. • In Table 1.1a, the number of uninsured persons was 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 using three age groups: under 18, 18–44, and 45–64. • The analyses excluded persons with unknown health insurance status (about 1% of respondents each year). • See [Technical Notes](#) for more details.



Table 1.2a. Percentage of persons under age 65 with public health plan coverage, by age group: United States, 1997–2012

| Year | Percent (95% confidence interval): Under 65 years | Percent (95% confidence interval): 18–64 years | Percent (95% confidence interval): Under 18 years |
|----------------------------------|--|---|--|
| 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) |

Table 1.2b. Percentage of persons under age 65 with private health insurance coverage, by age group: United States, 1997–2012

| Year | Percent (95% confidence interval): Under 65 years | Percent (95% confidence interval): 18–64 years | Percent (95% confidence interval): Under 18 years |
|----------------------------------|--|---|--|
| 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) |

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

- For 2012, 23.5% of persons under age 65 were covered by public health plans (Table 1.2a) and 61.0% were covered by private health plans (Table 1.2b).
- Public health plan coverage rates among both children aged 0–17 years and adults aged 18–64 were higher in 2012 than in 1997. However, the increase among adults was small compared with the increase among children. Both for children and for adults aged 18–64, the public health insurance coverage rates in 2012 were the highest since 1997 (Table 1.2a).
- Private health care coverage rates among both children aged 0–17 years and adults aged 18–64 were lower in 2012 than in 1997. For children aged 0–17 years, the private health



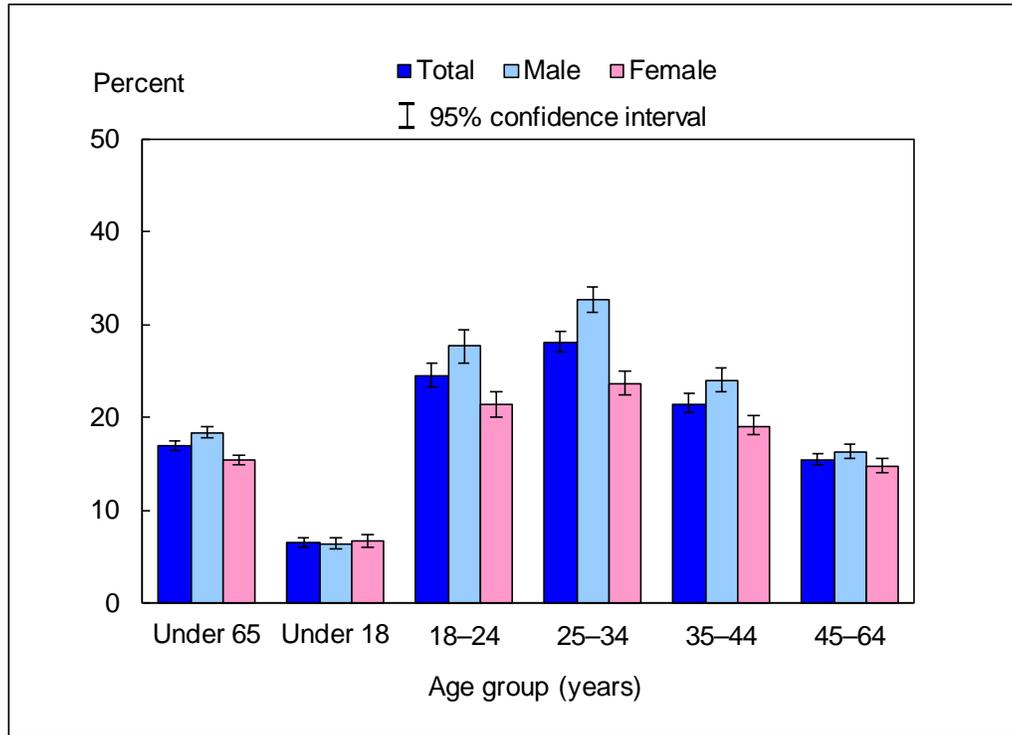
care coverage rates in 2012 were the lowest since 1997. For adults aged 18–64, the private health insurance coverage rates in 2010 and 2012 were the lowest since 1997 (Table 1.1b).

...Category not applicable. See Footnote 1 for more information.

¹ In the third quarter of 2004, two additional 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 (noted as Method 1) and with the responses to these new questions (noted as 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 and keyword searches. 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 points of those based on the editing procedures used for the final data files. • The analyses excluded persons with unknown health insurance status (about 1% of respondents each year). • See [Technical Notes](#) for more details.

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, 2012

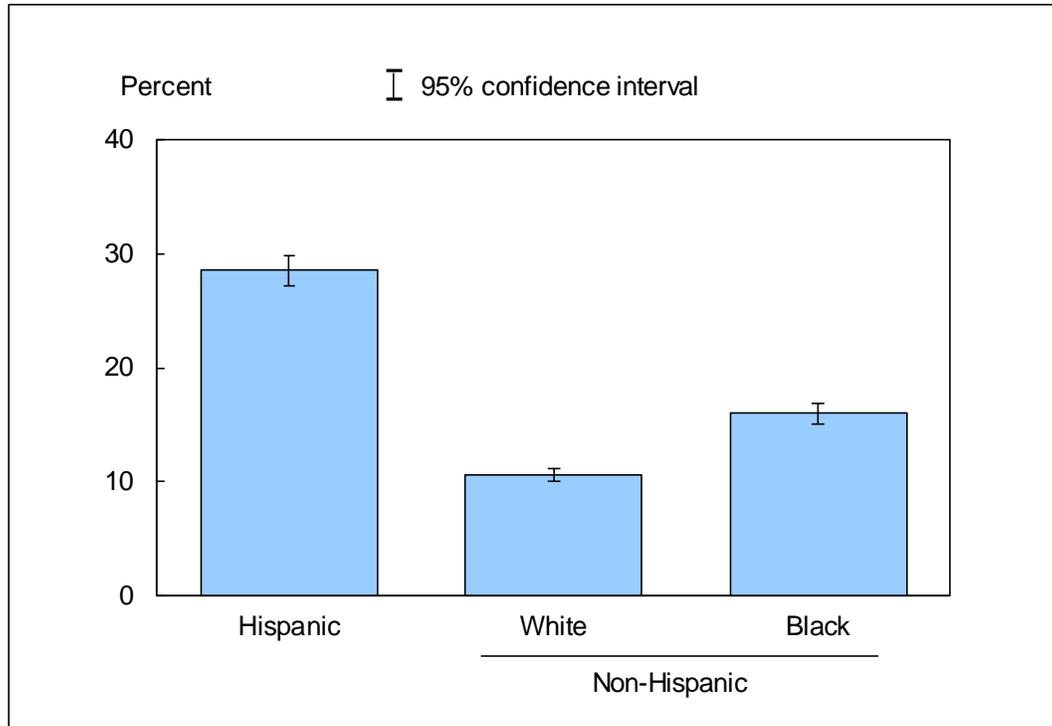


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- For both sexes combined under age 65, the percentage uninsured at the time of interview was highest among persons aged 25–34 (28.2%) and lowest among persons under age 18 (6.6%).
- Adults aged 18–24 and 25–34 were more likely than adults aged 35–44 and 45–64 to lack health insurance coverage.
- For all persons under age 65, and for adults in age groups 18–24, 25–34, 35–44, and 45–64, males were more likely than females to lack health insurance coverage at the time of interview.

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 (CHIP), 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 and keyword searches. The resulting estimates of persons not having health insurance coverage are generally 0.1–0.3 percentage points lower than those based on the editing procedures used for the final data files. • The analyses excluded the 1.0% of persons with unknown health insurance status. • See [Technical Notes](#) for more details.

Figure 1.3. Age-sex-adjusted percentage of persons of all ages without health insurance coverage at the time of interview, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- After adjustment for age and sex, the percentage uninsured at the time of interview was 28.5% for Hispanic persons, 10.6% for non-Hispanic white persons, and 16.0% for non-Hispanic black persons.
- Hispanic persons were the most likely to be uninsured at the time of interview, followed by non-Hispanic black persons and non-Hispanic white persons.

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 (CHIP), 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 and keyword searches. The resulting estimates of persons not having health insurance coverage are generally 0.1–0.3 percentage points lower than those based on the editing procedures used for the final data files. • The analyses excluded the 0.9% of persons with unknown health insurance status. • Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using three age groups: under 18, 18–64, and 65 and over. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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 |

¹In the third quarter of 2004, two additional 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 (noted as Method 1) and with the responses to these new questions (noted as 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 the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|---|---------|-------------------------|
| Under 18, total | 6.6 | 6.07-7.13 |
| Under 18, male | 6.5 | 5.88-7.03 |
| Under 18, female | 6.8 | 6.06-7.45 |
| 18-24, total | 24.6 | 23.29-25.90 |
| 18-24, male | 27.7 | 25.95-29.53 |
| 18-24, female | 21.4 | 19.99-22.86 |
| 25-34, total | 28.2 | 27.12-29.24 |
| 25-34, male | 32.8 | 31.43-34.13 |
| 25-34, female | 23.7 | 22.52-24.94 |
| 35-44, total | 21.6 | 20.57-22.59 |
| 35-44, male | 24.1 | 22.73-25.40 |
| 35-44, female | 19.2 | 18.14-20.24 |
| 45-64, total | 15.6 | 14.95-16.21 |
| 45-64, male | 16.3 | 15.55-17.09 |
| 45-64, female | 14.9 | 14.16-15.61 |
| Under 65 (crude ¹), total | 16.9 | 16.41-17.46 |
| Under 65 (crude ¹), male | 18.5 | 17.84-19.07 |
| Under 65 (crude ¹), female | 15.4 | 14.88-16.00 |
| Under 65 (age-adjusted ²), total | 17.1 | 16.59-17.62 |
| Under 65 (age-adjusted ²), male | 18.8 | 18.20-19.41 |
| Under 65 (age-adjusted ²), female | 15.5 | 14.90-16.01 |

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 using three age groups: under 18, 18-44, and 45-64.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

| Race/ethnicity | Age-sex-adjusted¹ percent (95% confidence interval) | Age-adjusted² percent (95% confidence interval) |
|---|---|---|
| Hispanic or Latino | 28.5 (27.22-29.79) | 28.3 (27.00-29.54) |
| Not Hispanic or Latino, single race, white | 10.6 (10.19-11.11) | 11.1 (10.62-11.59) |
| Not Hispanic or Latino, single race, black | 16.0 (15.12-16.80) | 16.0 (15.19-16.89) |

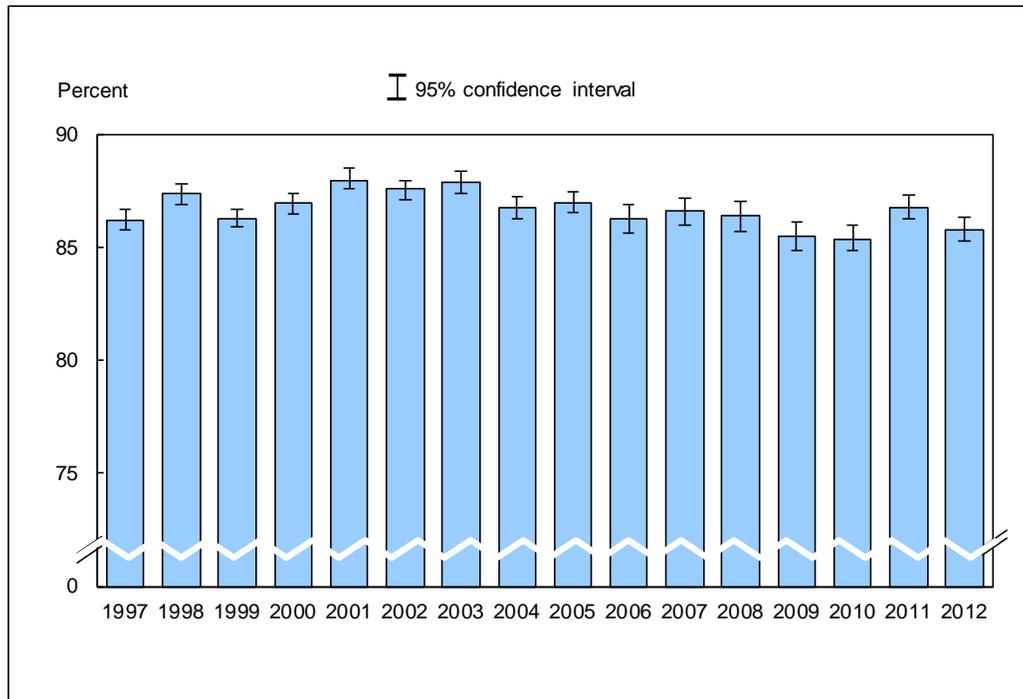
¹Age-sex-adjusted estimates are presented in the figure. Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using three age groups: under 18, 18–64, and 65 and over.

²Estimates for this Healthy People 2020 Leading Health Indicator are age adjusted using the projected 2000 U.S. population as the standard population and using four age groups: under 18, 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: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

Figure 2.1. Percentage of persons of all ages with a usual place to go for medical care: United States, 1997–2012

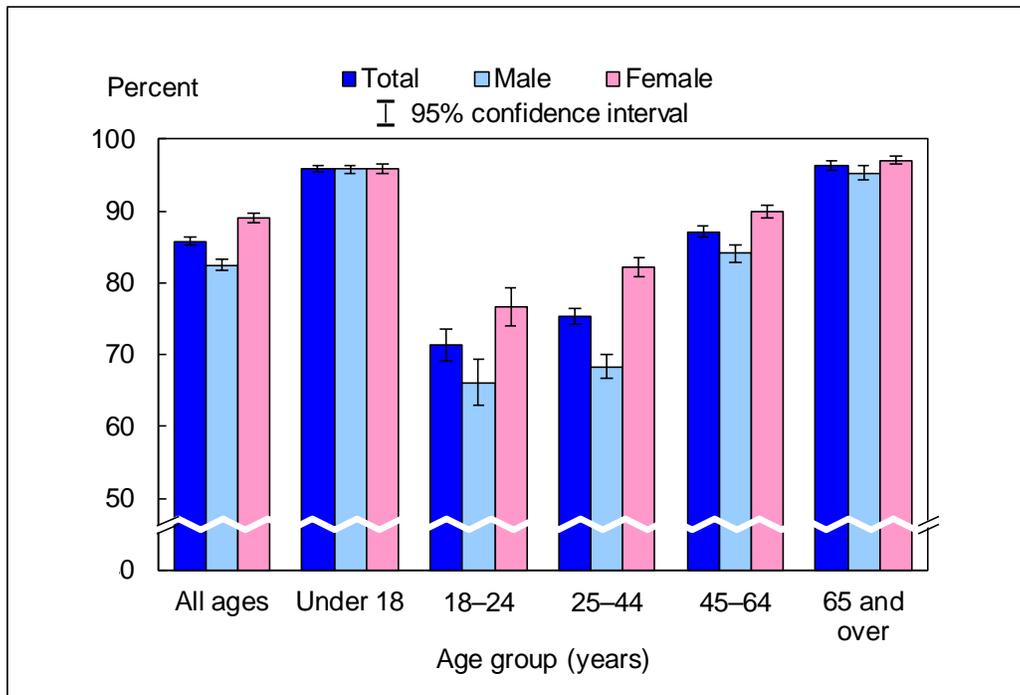


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, combined Sample Adult and Sample Child Core components.

- For 2012, the percentage of persons who had a usual place to go for medical care was 85.8% (95% confidence interval = 85.32%–86.38%), which was lower than the 2011 estimate of 86.8%.
- The percentage of persons of all ages who had a usual place to go for medical care was highest in 2001 (88.0%) and lowest in 2010 (85.4%).

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 persons with an unknown usual place to go for medical care (about 1.5% of respondents each year). • See [Technical Notes](#) for more details.

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, 2012

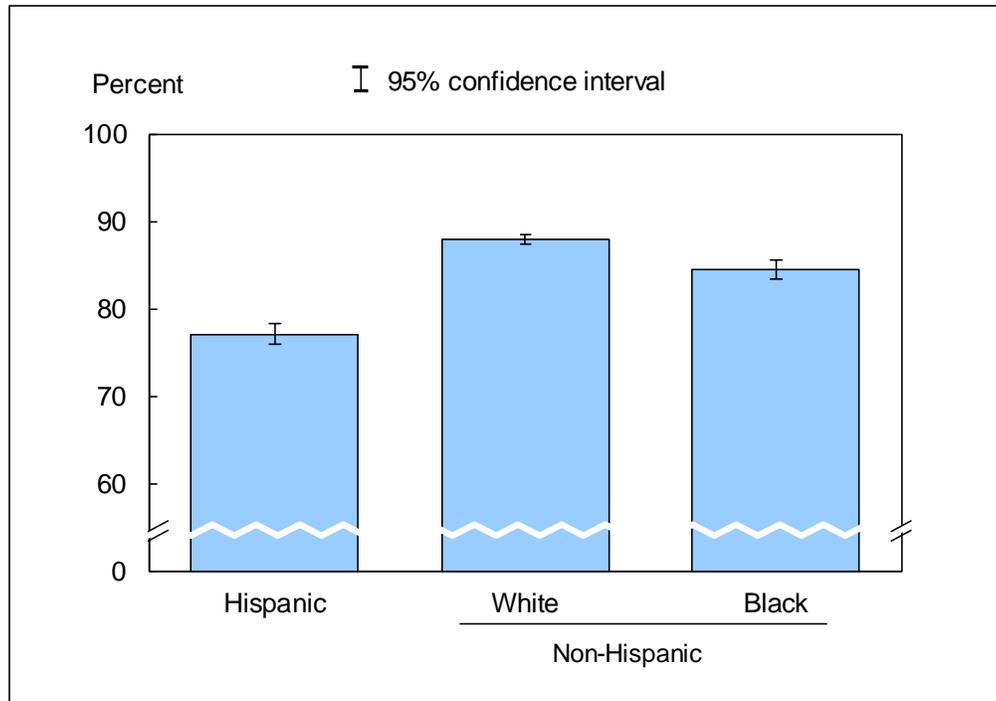


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

- Persons aged 18–24 were the least likely to have a usual place to go for medical care. Children under age 18 were more likely than adults in age groups 18–24, 25–44, and 45–64 to have a usual place to go for medical care.
- Among those aged 18 and over, the percentage of persons having a usual place to go for medical care increased with age.
- For persons of all ages combined, as well as for the age groups 18–24, 25–44, 45–64, and 65 and over, females were more likely than males to have a usual place to go for medical care.

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 1.0% of persons with an unknown usual place to go for medical care. • See [Technical Notes](#) for more details.

Figure 2.3. Age-sex-adjusted percentage of persons of all ages with a usual place to go for medical care, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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 was 77.2% for Hispanic persons, 88.1% for non-Hispanic white persons, and 84.6% for non-Hispanic black persons.
- Of the three race/ethnicity groups, Hispanic persons were the least likely to have a usual place to go for medical care, followed by non-Hispanic black persons and non-Hispanic white persons.

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 1.0% 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 using five age groups: under 18, 18–24, 25–44, 45–64, and 65 and over. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using five age groups: under 18, 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 the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|---|---------|-------------------------|
| Under 18, total | 95.9 | 95.45-96.26 |
| Under 18, male | 95.8 | 95.28-96.41 |
| Under 18, female | 95.9 | 95.27-96.46 |
| 18-24, total | 71.4 | 69.21-73.55 |
| 18-24, male | 66.1 | 62.91-69.31 |
| 18-24, female | 76.7 | 74.07-79.31 |
| 25-44, total | 75.4 | 74.29-76.49 |
| 25-44, male | 68.3 | 66.68-70.00 |
| 25-44, female | 82.2 | 80.91-83.50 |
| 45-64, total | 87.1 | 86.30-87.84 |
| 45-64, male | 84.1 | 82.89-85.34 |
| 45-64, female | 89.9 | 88.98-90.75 |
| 65 and over, total | 96.3 | 95.72-96.94 |
| 65 and over, male | 95.3 | 94.36-96.32 |
| 65 and over, female | 97.1 | 96.47-97.74 |
| All ages (crude ¹), total | 85.8 | 85.32-86.38 |
| All ages (crude ¹), male | 82.5 | 81.70-83.24 |
| All ages (crude ¹), female | 89.1 | 88.48-89.66 |
| All ages (age-adjusted ²), total | 85.5 | 85.01-86.03 |
| All ages (age-adjusted ²), male | 82.1 | 81.40-82.86 |
| All ages (age-adjusted ²), female | 88.8 | 88.20-89.36 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using five age groups: under 18, 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: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

| Race/ethnicity | Age-sex-adjusted¹ percent (95% confidence interval) | Age-adjusted² percent (95% confidence interval) |
|--|---|---|
| Hispanic or Latino | 77.2 (76.00-78.38) | 77.1 (75.85-78.27) |
| Not Hispanic or Latino, single race, white | 88.1 (87.54-88.66) | 88.1 (87.52-88.65) |
| Not Hispanic or Latino, single race, black | 84.6 (83.56-85.65) | 84.9 (83.88-85.97) |

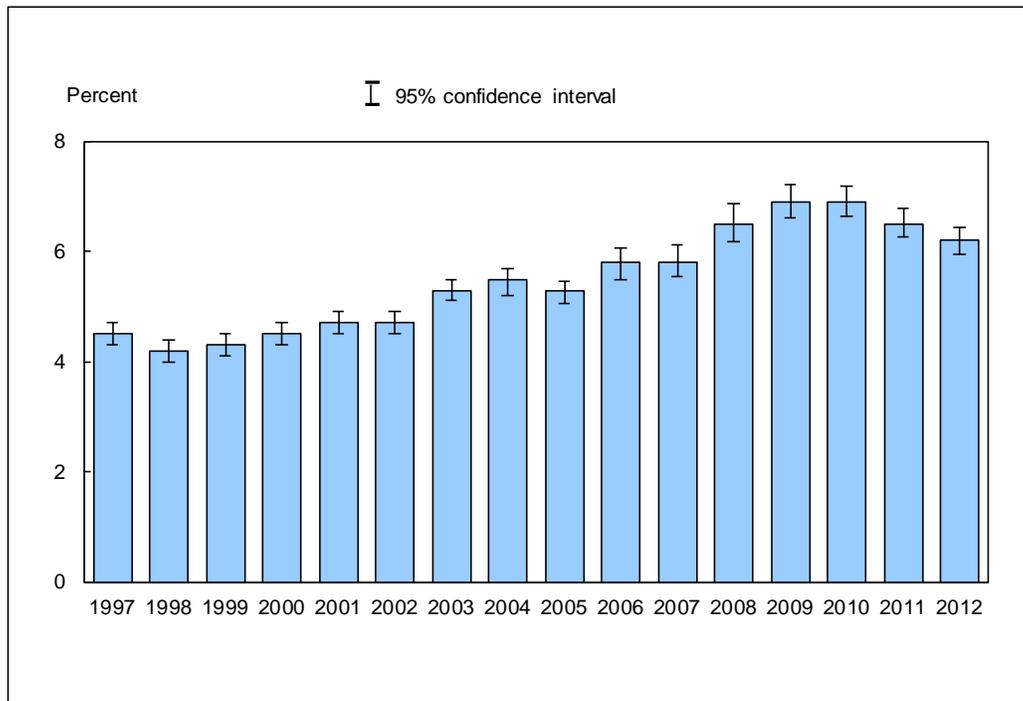
¹Age-sex-adjusted estimates are presented in the figure. Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using five age groups: under 18, 18–24, 25–44, 45–64, and 65 and over.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using five age groups: under 18, 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: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

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, 1997–2012

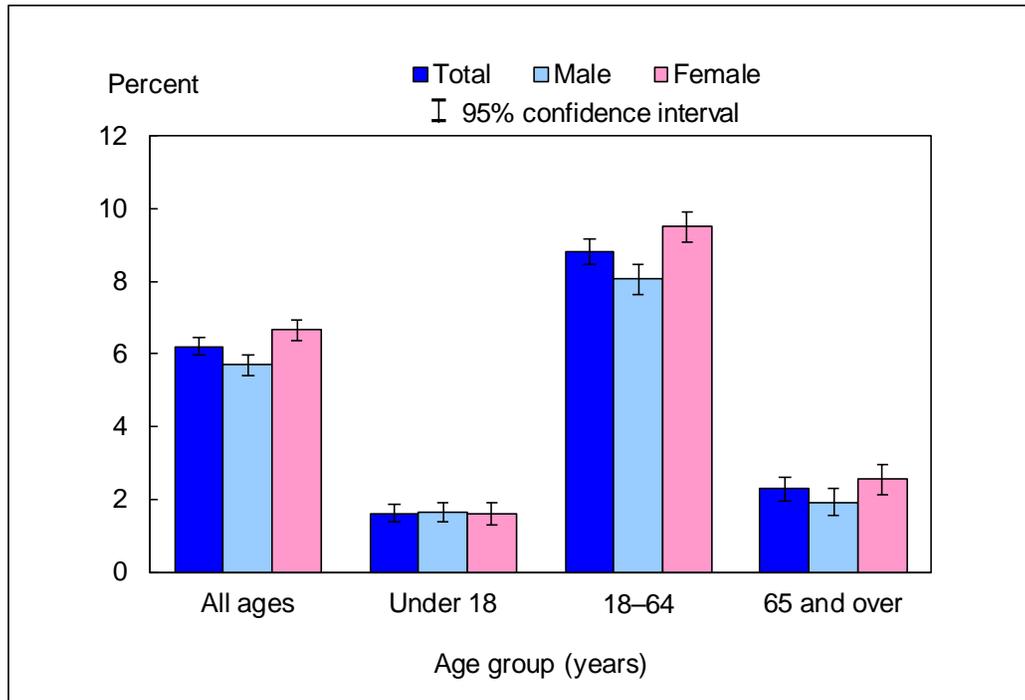


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

- For 2012, 6.2% (95% confidence interval = 5.96%–6.45%) 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 2011 estimate of 6.5%.
- There was an increasing trend in the percentage of persons who failed to obtain needed medical care due to cost, from 4.3% in 1999 to 6.9% in 2010. The percentage then decreased from 6.9% in 2010 to 6.2% in 2012.

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

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, 2012

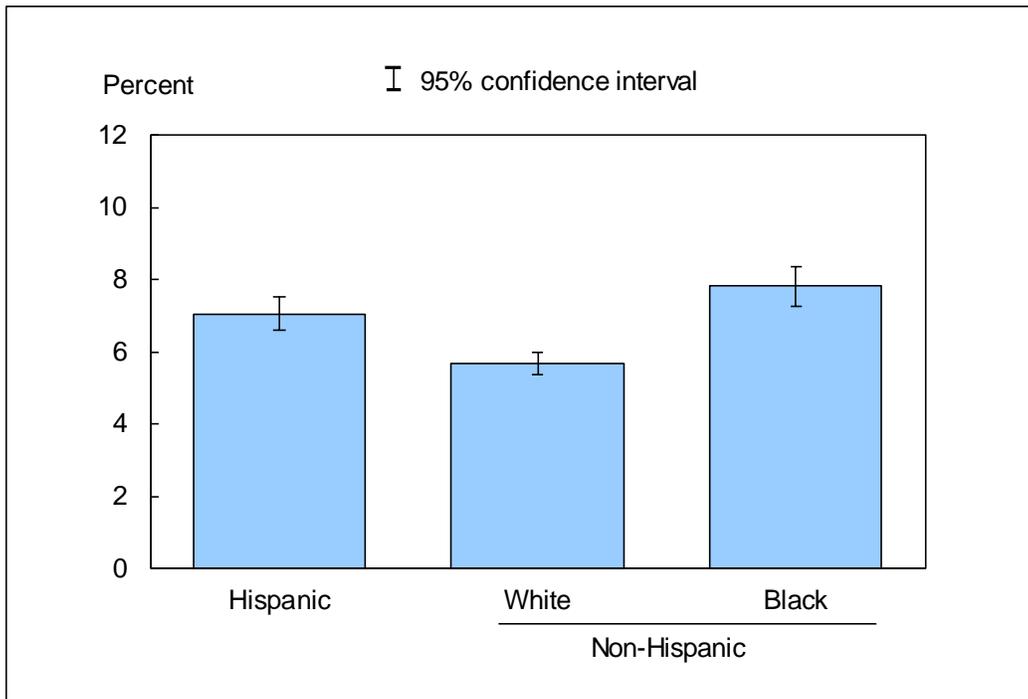


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- 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 was 1.6% for those under age 18, 8.8% for those aged 18–64, and 2.3% for those aged 65 and over. Adults aged 18–64 were more likely than children under age 18 and adults aged 65 and over to have failed to obtain needed medical care due to cost.
- For persons of all ages combined, as well as for the age groups 18–64 and 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.

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

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/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- After adjustment for age and sex, 7.1% of Hispanic persons, 5.7% of non-Hispanic white persons, and 7.8% of non-Hispanic black persons failed to obtain needed medical care due to cost at some time during the year preceding the interview.
- Hispanic persons and non-Hispanic black persons were more likely than non-Hispanic white persons to have failed to obtain needed medical care due to cost.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded 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 using three age groups: under 18, 18–64, and 65 and over. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

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

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|---|---------|-------------------------|
| Under 18, total | 1.6 | 1.40-1.85 |
| Under 18, male | 1.6 | 1.37-1.93 |
| Under 18, female | 1.6 | 1.30-1.89 |
| 18-64, total | 8.8 | 8.45-9.15 |
| 18-64, male | 8.1 | 7.64-8.48 |
| 18-64, female | 9.5 | 9.10-9.92 |
| 65 and over, total | 2.3 | 1.97-2.60 |
| 65 and over, male | 1.9 | 1.55-2.31 |
| 65 and over, female | 2.6 | 2.14-2.98 |
| All ages (crude ¹), total | 6.2 | 5.96-6.45 |
| All ages (crude ¹), male | 5.7 | 5.43-5.99 |
| All ages (crude ¹), female | 6.7 | 6.39-6.96 |
| All ages (age-adjusted ²), total | 6.1 | 5.89-6.36 |
| All ages (age-adjusted ²), male | 5.6 | 5.36-5.90 |
| All ages (age-adjusted ²), female | 6.6 | 6.31-6.87 |

¹Crude estimates are presented in the figure.

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

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

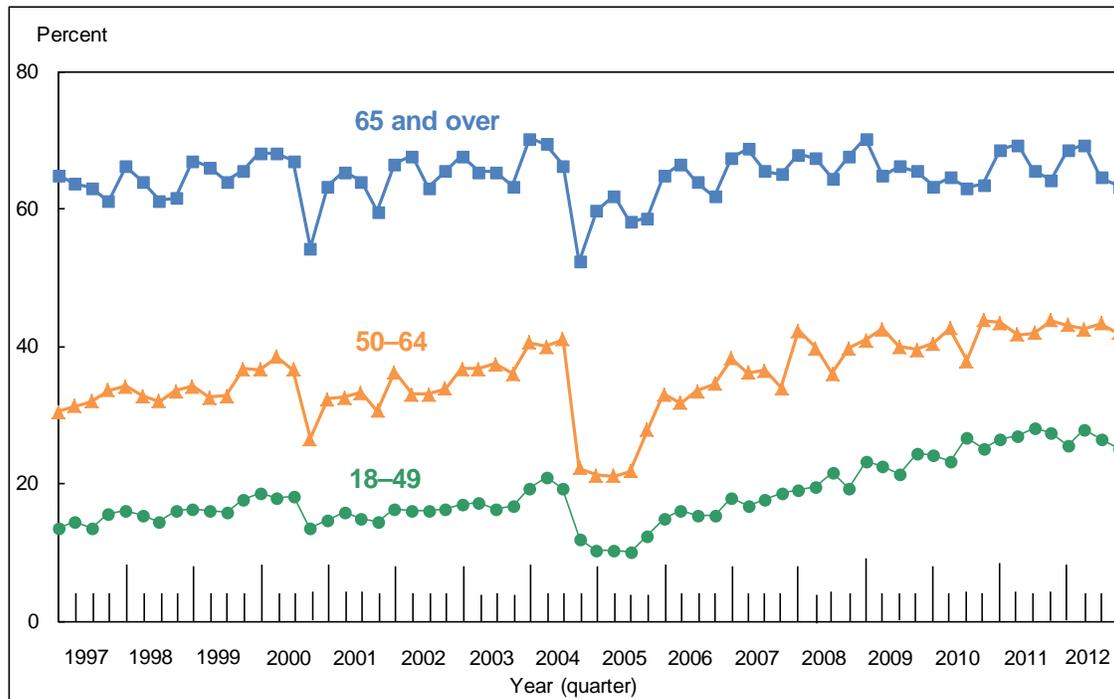
| Race/ethnicity | Percent ¹ | 95% confidence interval |
|--|----------------------|-------------------------|
| Hispanic or Latino | 7.1 | 6.59-7.53 |
| Not Hispanic or Latino, single race, white | 5.7 | 5.39-6.01 |
| Not Hispanic or Latino, single race, black | 7.8 | 7.27-8.37 |

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

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

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, 1997–2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- In the fourth quarter of 2012, the percentage of adults who had received an influenza vaccination during the past 12 months was 63.4% for adults aged 65 and over, 41.9% for those aged 50–64, and 25.2% for those aged 18–49.
- For the age groups 18–49, 50–64, and 65 and over, the fourth-quarter estimates in 2012 were lower than, but not significantly different from, fourth-quarter estimates in 2011.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • National Health Interview Survey (NHIS) questions related to influenza vaccination have changed since 1997. Starting in 1997, respondents were asked if they had received a flu shot during the past 12 months. Beginning in 2003, respondents were also asked if they had received a flu vaccine sprayed in their nose during the past 12 months. In August 2010, NHIS influenza vaccination questions were modified to reflect that, for the first time, the widely available influenza vaccine included protection against both seasonal and H1N1 types of influenza. • 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 seasonal influenza shot and/or seasonal intranasal influenza vaccination. • Estimates based on data collected in quarters three and four of 2010 and 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). Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (estimates available from: <http://www.cdc.gov/flu/fluview>). • The recommendations of the Advisory Committee on Immunization Practices regarding who should receive an influenza vaccination have changed over the years, and changes in coverage estimates may reflect changes in recommendations (4–6). • An influenza vaccine shortage occurred during the 2004–2005 influenza season (4). Delays in the availability of influenza shots also occurred in fall 2001 (4–7). • The analyses excluded those with unknown influenza vaccination status (about 3% of respondents each year). • See [Technical Notes](#) for more details.



Table 4.1a. Percentage of adults aged 50–64 who received an influenza vaccination during the past 12 months, by sex: United States, 1997–2012

| Year | Percent (95% confidence interval): Total | Percent (95% confidence interval): Men | Percent (95% confidence interval): Women |
|------|---|---|---|
| 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) |

Table 4.1b. Percentage of adults aged 65 and over who received an influenza vaccination during the past 12 months, by sex: United States, 1997–2012

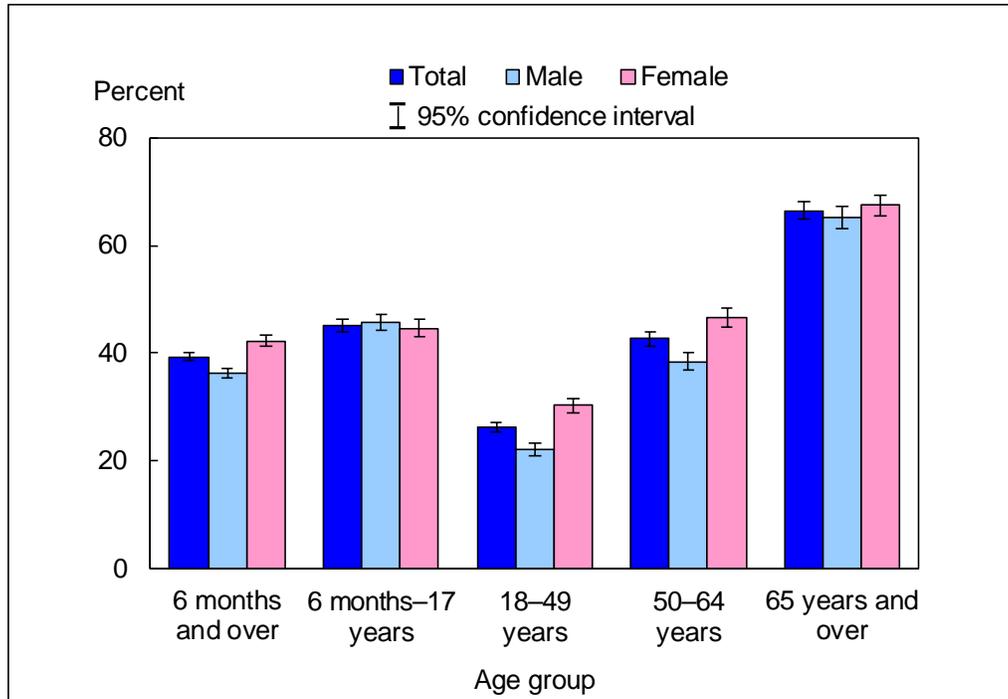
| Year | Crude percent (95% confidence interval):Total | Age-adjusted percent (95% confidence interval):Total | Percent (95% confidence interval):Men | Percent (95% confidence interval):Women |
|------|---|--|---------------------------------------|---|
| 1997 | 63.2(61.9-64.6) | 63.1 (61.7-64.4) | 64.8 (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) |

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, the percentage of adults who had received an influenza vaccination during the past 12 months was 42.7% for persons aged 50–64 (Table 4.1a). This estimate was the same as the 2011 estimate.
- For 2012, the percentage of adults who had received an influenza vaccination during the past 12 months was 66.5% for persons aged 65 and over (Table 4.1b). This estimate was lower than, but not significantly different from, the 2011 estimate of 67.0%.
- For the age group 50–64, the percentage of adults who had received an influenza vaccination during the past 12 months increased from 31.9% in 1997 to 42.7% in 2012.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • National Health Interview Survey (NHIS) questions related to influenza vaccination have changed since 1997. Starting in 1997, respondents were asked if they had received a flu shot during the past 12 months. Beginning in 2003, respondents were also asked if they had received a flu vaccine sprayed in their nose during the past 12 months. In August 2010, NHIS influenza vaccination questions were modified to reflect that, for the first time, the widely available influenza vaccine included protection against both seasonal and H1N1 types of influenza. • 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 seasonal influenza shot and/or seasonal intranasal influenza vaccination. • Estimates based on data collected in quarters three and four of 2010 and 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). Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (estimates available from: <http://www.cdc.gov/flu/fluview>). • The recommendations of the Advisory Committee on Immunization Practices regarding who should receive an influenza vaccination have changed over the years and changes in coverage estimates may reflect changes in recommendations (4–6). • 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). • The analyses excluded those with unknown influenza vaccination status (about 3% of respondents each year). • See [Technical Notes](#) for more details.

Figure 4.2. Percentage of persons who received an influenza vaccination during the past 12 months, by age group and sex: United States, 2012

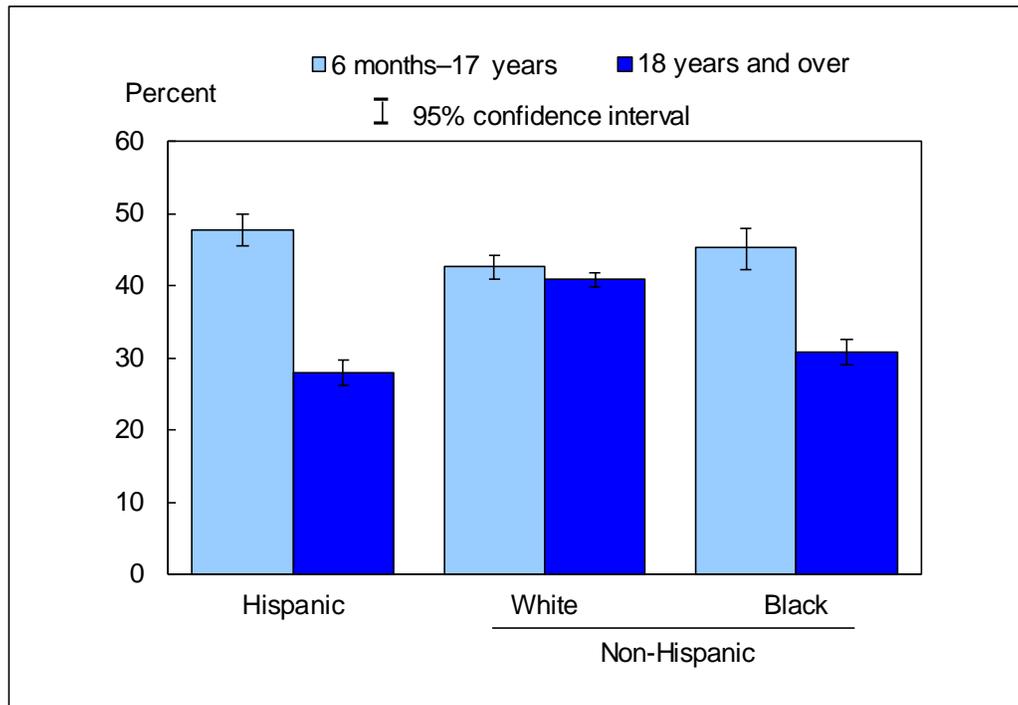


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

- For both sexes combined, the percentage of persons who had received an influenza vaccination during the past 12 months was highest among persons aged 65 and over (66.5%), followed by persons aged 6 months–17 years (45.2%), 50–64 years (42.7%), and 18–49 years (26.3%).
- 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.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Respondents were asked in separate questions if they had received a flu shot during the past 12 months or a flu vaccine sprayed in their nose during the past 12 months. These questions do not indicate whether the vaccination was a child's first or second dose. In August 2010, National Health Interview Survey influenza vaccination questions were modified to reflect that, for the first time, the widely available influenza vaccine included protection against both seasonal and H1N1 types of influenza. When interpreting influenza vaccination estimates, readers should take into account changes made to the influenza vaccination questions noted above. • Estimates based on data collected in 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). Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (estimates available from: <http://www.cdc.gov/flu/fluview>). • The recommendations of the Advisory Committee on Immunization Practices regarding who should receive an influenza vaccination have changed over the years and changes in coverage estimates may reflect changes in recommendations (5,8). • The analyses excluded the 2.5% of persons with unknown influenza vaccination status. • See [Technical Notes](#) for more details.

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/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For children aged 6 months–17 years, the percentage who had received an influenza vaccination during the past 12 months was 47.8% for Hispanic children, 42.6% for non-Hispanic white children, and 45.2% for non-Hispanic black children. Non-Hispanic white children were less likely to have received an influenza vaccination than Hispanic children.
- For adults aged 18 and over, the percentage who had received an influenza vaccination during the past 12 months was lowest among Hispanic adults (28.0%), followed by non-Hispanic black adults (30.7%) and non-Hispanic white adults (40.9%).

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Respondents were asked in separate questions if they had received a flu shot during the past 12 months or a flu vaccine sprayed in their nose during the past 12 months. In August 2010, National Health Interview Survey influenza vaccination questions were modified to reflect that for the first time, the widely available influenza vaccine included protection against both seasonal and H1N1 types of influenza. When interpreting influenza vaccination estimates, readers should take into account changes made to the influenza vaccination questions noted above. • Estimates based on data collected in 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). Prevalence of influenza vaccination during the past 12 months is different from season-specific coverage (estimates available from: <http://www.cdc.gov/flu/fluview>). • The recommendations of the Advisory Committee on Immunization Practices regarding who should receive an influenza vaccination have changed over the years and changes in coverage estimates may reflect changes in recommendations (5). • The analyses excluded the 2.5% of adults aged 65 and over with unknown influenza vaccination status. • See [Technical Notes](#) for more details.



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, 1997–2012

| Year and quarter | Percent (95% confidence interval): 18-49 years | Percent (95% confidence interval): 50-64 years | Percent (95% confidence interval): 65 years and over |
|------------------|---|---|---|
| 1997, Q1 | 13.6 (12.5-14.6) | 30.5 (27.8-33.2) | 65.0 (62.3-67.6) |
| 1997, Q2 | 14.5 (13.4-15.5) | 31.3 (28.7-34.0) | 63.7 (61.1-66.2) |
| 1997, Q3 | 13.6 (12.6-14.6) | 32.0 (29.3-34.6) | 63.1 (60.3-65.9) |
| 1997, Q4 | 15.6 (14.5-16.7) | 33.6 (31.1-36.2) | 61.2 (58.7-63.8) |
| 1998, Q1 | 16.1 (14.8-17.3) | 34.2 (31.3-37.1) | 66.3 (63.2-69.4) |
| 1998, Q2 | 15.3 (14.1-16.5) | 32.8 (30.1-35.5) | 64.0 (61.3-66.8) |
| 1998, Q3 | 14.5 (13.3-15.6) | 32.0 (29.3-34.6) | 61.3 (58.5-64.0) |
| 1998, Q4 | 16.0 (14.8-17.2) | 33.5 (30.8-36.1) | 61.6 (58.7-64.5) |
| 1999, Q1 | 16.3 (14.8-17.7) | 34.2 (31.1-37.3) | 67.0 (64.0-70.1) |
| 1999, Q2 | 16.0 (14.7-17.3) | 32.6 (29.8-35.4) | 66.1 (63.4-68.8) |
| 1999, Q3 | 15.8 (14.5-17.1) | 32.8 (30.1-35.5) | 64.1 (61.2-67.0) |
| 1999, Q4 | 17.6 (16.2-18.9) | 36.7 (34.2-39.2) | 65.7 (62.7-68.6) |
| 2000, Q1 | 18.6 (17.2-19.9) | 36.6 (33.7-39.4) | 68.2 (65.3-71.0) |
| 2000, Q2 | 18.0 (16.7-19.4) | 38.5 (35.7-41.4) | 68.1 (65.6-70.7) |
| 2000, Q3 | 18.2 (16.9-19.4) | 36.6 (33.7-39.5) | 67.1 (64.4-69.8) |
| 2000, Q4 | 13.6 (12.4-14.8) | 26.6 (24.2-29.0) | 54.3 (51.6-57.1) |
| 2001, Q1 | 14.7 (13.4-16.0) | 32.3 (29.6-35.0) | 63.3 (60.2-66.3) |
| 2001, Q2 | 15.9 (14.7-17.1) | 32.6 (30.1-35.1) | 65.4 (62.8-68.0) |
| 2001, Q3 | 14.9 (13.9-15.9) | 33.3 (30.7-35.8) | 64.0 (61.1-66.8) |
| 2001, Q4 | 14.5 (13.6-15.9) | 30.6 (28.0-33.1) | 59.6 (56.7-62.4) |
| 2002, Q1 | 16.4 (15.2-17.7) | 36.3 (33.6-38.9) | 66.6 (63.8-69.4) |
| 2002, Q2 | 16.0 (14.8-17.2) | 33.0 (30.5-35.5) | 67.8 (65.3-70.3) |
| 2002, Q3 | 16.2 (14.9-17.5) | 33.1 (30.6-35.6) | 63.1 (60.5-65.8) |
| 2002, Q4 | 16.4 (15.1-17.8) | 33.8 (31.0-36.6) | 65.5 (62.4-68.6) |
| 2003, Q1 | 17.1 (15.7-18.4) | 36.8 (34.2-39.4) | 67.8 (65.0-70.6) |
| 2003, Q2 | 17.2 (15.8-18.6) | 36.8 (33.9-39.7) | 65.4 (62.6-68.3) |
| 2003, Q3 | 16.4 (15.2-17.6) | 37.4 (34.9-39.9) | 65.4 (62.8-67.9) |
| 2003, Q4 | 16.7 (15.2-18.1) | 36.1 (33.3-39.0) | 63.3 (60.1-66.5) |
| 2004, Q1 | 19.3 (17.9-20.8) | 40.6 (38.0-43.3) | 70.3 (67.5-73.0) |
| 2004, Q2 | 20.9 (19.1-22.6) | 40.0 (37.1-43.0) | 69.5 (66.7-72.3) |
| 2004, Q3 | 19.4 (18.2-20.7) | 41.0 (38.4-43.6) | 66.4 (63.6-69.2) |
| 2004, Q4 | 12.0 (10.9-13.1) | 22.3 (20.2-24.5) | 52.4 (49.5-55.4) |

See notes at end of table.

| Year and quarter | Percent (95% confidence interval): 18-49 years | Percent (95% confidence interval): 50-64 years | Percent (95% confidence interval): 65 years and over |
|------------------|--|--|--|
| 2005, Q1 | 10.2 (9.03-11.41) | 21.2 (19.05-23.42) | 59.8 (56.66-62.90) |
| 2005, Q2 | 10.3 (9.25-11.37) | 21.1 (19.05-23.19) | 62.0 (59.02-64.91) |
| 2005, Q3 | 10.0 (9.03-11.03) | 21.8 (19.64-24.01) | 58.2 (55.42-60.97) |
| 2005, Q4 | 12.4 (11.28-13.51) | 27.8 (25.47-30.19) | 58.7 (55.68-61.71) |
| 2006, Q1 | 15.0 (13.69-16.36) | 33.1 (29.95-36.20) | 64.9 (61.65-68.15) |
| 2006, Q2 | 16.2 (14.78-17.68) | 31.8 (29.05-34.50) | 66.6 (63.60-69.51) |
| 2006, Q3 | 15.5 (13.56-17.47) | 33.5 (29.45-37.51) | 63.9 (58.90-68.84) |
| 2006, Q4 | 15.4 (14.07-16.82) | 34.5 (31.81-37.11) | 61.9 (58.72-65.00) |
| 2007, Q1 | 18.0 (16.36-19.63) | 38.3 (35.28-41.39) | 67.5 (64.47-70.62) |
| 2007, Q2 | 16.7 (15.07-18.31) | 36.2 (33.37-39.03) | 68.8 (65.62-71.91) |
| 2007, Q3 | 17.6 (15.47-19.74) | 36.5 (32.10-40.95) | 65.6 (60.90-70.39) |
| 2007, Q4 | 18.7 (17.11-20.38) | 34.0 (31.14-36.79) | 65.1 (62.17-68.02) |
| 2008, Q1 | 19.0 (17.41-20.56) | 42.3 (39.12-45.57) | 68.0 (64.78-71.21) |
| 2008, Q2 | 19.5 (17.87-21.08) | 39.8 (37.01-42.57) | 67.4 (64.60-70.20) |
| 2008, Q3 | 21.6 (19.95-23.26) | 36.0 (33.10-38.86) | 64.5 (61.09-68.00) |
| 2008, Q4 | 19.4 (17.29-21.60) | 39.7 (35.45-43.92) | 67.8 (63.70-71.91) |
| 2009, Q1 | 23.3 (20.81-25.78) | 40.9 (37.05-44.67) | 70.3 (66.08-74.59) |
| 2009, Q2 | 22.5 (20.92-24.06) | 42.5 (40.09-44.93) | 64.8 (62.04-67.55) |
| 2009, Q3 | 21.4 (19.81-22.98) | 40.0 (37.13-42.82) | 66.3 (63.03-69.47) |
| 2009, Q4 | 24.5 (23.06-25.93) | 39.5 (37.24-41.75) | 65.5 (62.96-68.03) |
| 2010, Q1 | 24.3 (22.45-26.17) | 40.4 (37.81-43.05) | 63.3 (60.51-66.04) |
| 2010, Q2 | 23.3 (21.56-25.02) | 42.7 (39.65-45.74) | 64.6 (61.74-67.39) |
| 2010, Q3 | 26.7 (24.81-28.64) | 37.9 (35.02-40.69) | 63.1 (59.87-66.39) |
| 2010, Q4 | 25.1 (23.24-27.04) | 43.8 (40.80-46.82) | 63.6 (60.19-66.99) |
| 2011, Q1 | 26.4 (24.86-27.93) | 43.4 (40.61-46.17) | 68.7 (66.01-71.37) |
| 2011, Q2 | 26.9 (25.32-28.46) | 41.7 (38.97-44.39) | 69.4 (67.00-71.78) |
| 2011, Q3 | 28.2 (26.47-29.87) | 41.9 (39.23-44.57) | 65.5 (62.59-68.50) |
| 2011, Q4 | 27.5 (25.48-29.47) | 43.8 (41.26-46.32) | 64.3 (61.52-67.14) |
| 2012, Q1 | 25.5 (23.78-27.25) | 43.1 (40.29-46.00) | 68.6 (65.63-71.61) |
| 2012, Q2 | 27.9 (26.16-29.55) | 42.5 (39.69-45.21) | 69.4 (66.84-72.03) |
| 2012, Q3 | 26.6 (24.68-28.54) | 43.3 (40.95-45.73) | 64.6 (61.86-67.32) |
| 2012, Q4 | 25.2 (23.49-26.84) | 41.9 (39.03-44.78) | 63.4 (60.28-66.44) |

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 6 months-4 years, total | 54.9 | 52.72-57.03 |
| 6 months-4 years, male | 56.6 | 53.71-59.40 |
| 6 months-4 years, female | 53.2 | 49.95-56.39 |
| 5-11, total | 47.1 | 45.46-48.83 |
| 5-11, male | 47.8 | 45.45-50.16 |
| 5-11, female | 46.4 | 43.91-48.97 |
| 12-17, total | 35.7 | 33.81-37.65 |
| 12-17, male | 35.3 | 32.60-38.03 |
| 12-17, female | 36.2 | 33.63-38.71 |
| 6 months-17 years, total | 45.2 | 44.03-46.35 |
| 6 months-17 years, male | 45.7 | 44.25-47.16 |
| 6 months-17 years, female | 44.7 | 43.01-46.29 |
| 18-49, total | 26.3 | 25.35-27.22 |
| 18-49, male | 22.2 | 20.94-23.37 |
| 18-49, female | 30.3 | 29.03-31.55 |
| 50-64, total | 42.7 | 41.44-43.99 |
| 50-64, male | 38.5 | 36.87-40.11 |
| 50-64, female | 46.7 | 44.94-48.50 |
| 65 and over, total | 66.5 | 64.98-67.96 |
| 65 and over, male | 65.2 | 63.17-67.29 |
| 65 and over, female | 67.4 | 65.56-69.34 |
| 6 months and over (crude ¹), total | 39.4 | 38.66-40.16 |
| 6 months and over (crude ¹), male | 36.4 | 35.49-37.29 |
| 6 months and over (crude ¹), female | 42.3 | 41.32-43.26 |
| 18 and over (crude ¹), total | 37.7 | 36.85-38.48 |
| 18 and over (crude ¹), male | 33.4 | 32.37-34.45 |
| 18 and over (crude ¹), female | 41.6 | 40.58-42.66 |
| 65 and over (age-adjusted ²), total | 66.9 | 65.46-68.38 |
| 65 and over (age-adjusted ²), male | 66.2 | 64.15-68.25 |
| 65 and over (age-adjusted ²), female | 67.6 | 65.74-69.46 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.



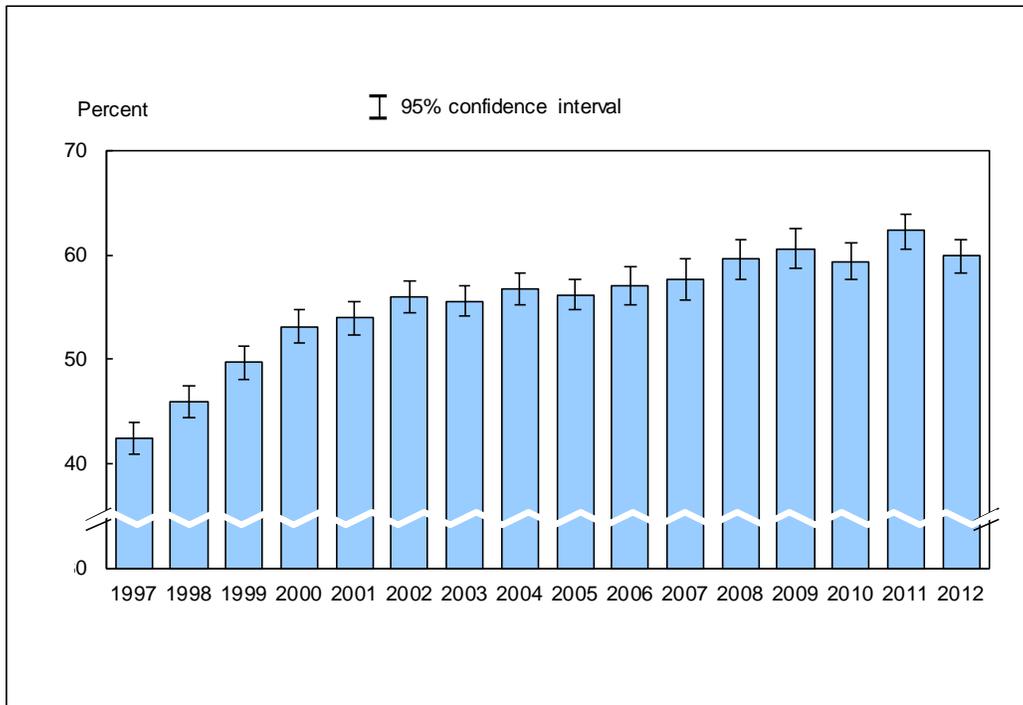
Data table for Figure 4.3. Percentage of persons aged 6 months and over who received an influenza vaccination during the past 12 months, by age group and race/ethnicity: United States, 2012

| Age and race/ethnicity | Percent | 95% confidence interval |
|---|----------------|--------------------------------|
| 6 months–17 years, Hispanic or Latino | 47.8 | 45.52-49.99 |
| 6 months–17 years, not Hispanic or Latino, single race, white | 42.6 | 40.85-44.28 |
| 6 months–17 years, not Hispanic or Latino, single race, black | 45.2 | 42.28-48.02 |
| 18 years and over, Hispanic or Latino | 28.0 | 26.29-29.73 |
| 18 years and over, not Hispanic or Latino, single race, white | 40.9 | 39.85-41.87 |
| 18 years and over, not Hispanic or Latino, single race, black | 30.7 | 28.94-32.46 |

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 5.1. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination: United States, 1997–2012

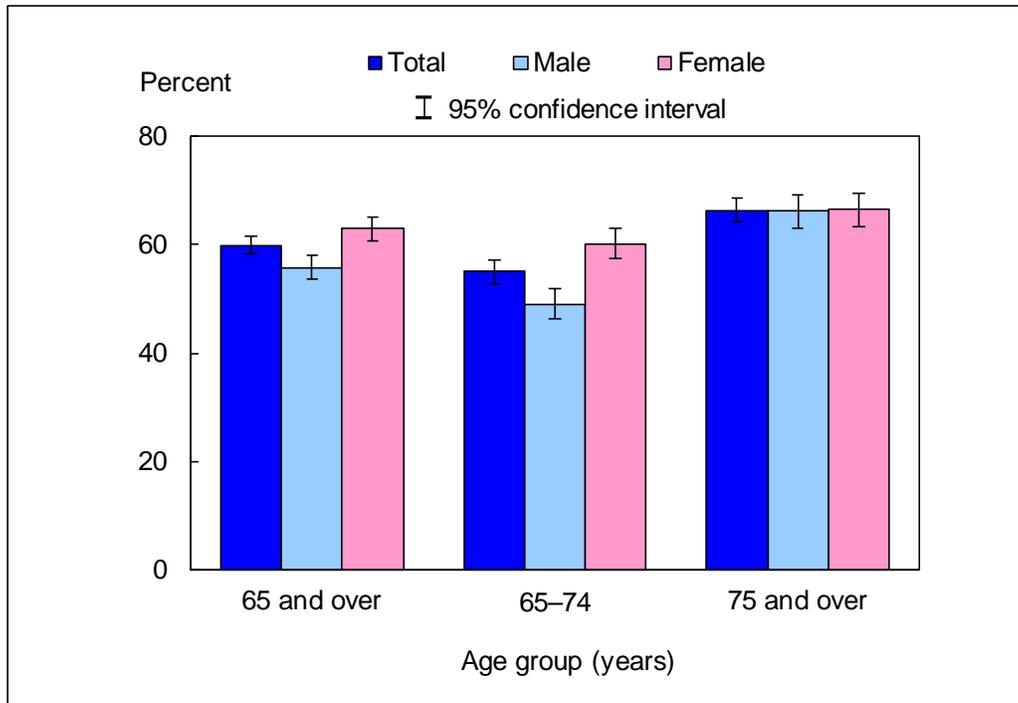


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, the percentage of adults aged 65 and over who had ever received a pneumococcal vaccination was 59.9% (95% confidence interval = 58.29%–61.49%), which was lower than the 2011 estimate of 62.3%.
- The percentage of adults aged 65 and over who had ever received a pneumococcal vaccination increased rapidly from 42.4% in 1997 to 53.1% in 2000, then increased more slowly to 59.9% in 2012.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded those with unknown pneumococcal vaccination status (about 5% of respondents each year). • See [Technical Notes](#) for more details.

Figure 5.2. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination, by age group and sex: United States, 2012

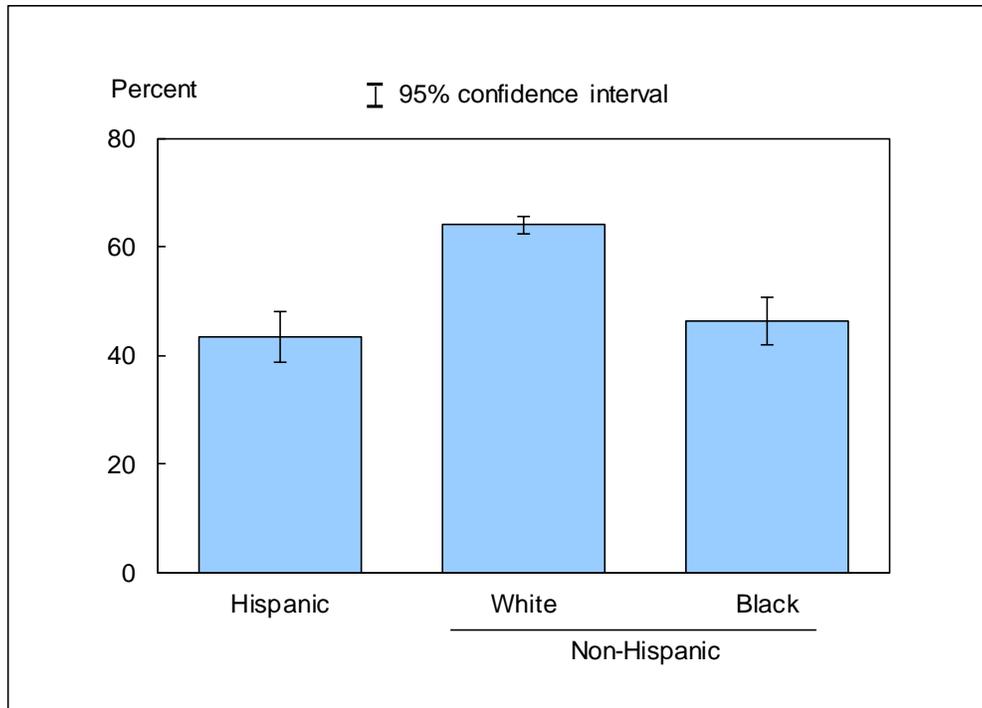


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For both sexes combined, the percentage of adults who had ever received a pneumococcal vaccination was 55.0% for persons aged 65–74 and 66.4% for persons aged 75 and over.
- Adults aged 75 and over were more likely than those adults aged 65–74 to have ever received a pneumococcal vaccination. This pattern was seen in both men and women.
- For adults aged 65 and over, and for adults aged 65–74, women were more likely than men to have ever received a pneumococcal vaccination.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded the 4.3% of adults aged 65 and over with unknown pneumococcal vaccination status. • See [Technical Notes](#) for more details.

Figure 5.3. Percentage of adults aged 65 and over who had ever received a pneumococcal vaccination, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The percentage of adults aged 65 and over who had ever received a pneumococcal vaccination was 43.4% for Hispanic persons, 64.0% for non-Hispanic white persons, and 46.4% for non-Hispanic black persons.
- Non-Hispanic white adults were more likely than non-Hispanic black adults and Hispanic adults to have ever received a pneumococcal vaccination.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded the 4.3% of adults aged 65 and over with unknown pneumococcal vaccination status. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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 the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 65-74, total | 55.0 | 52.92-57.10 |
| 65-74, male | 49.1 | 46.22-51.97 |
| 65-74, female | 60.2 | 57.35-62.98 |
| 75 and over, total | 66.4 | 64.18-68.55 |
| 75 and over, male | 66.2 | 63.05-69.33 |
| 75 and over, female | 66.5 | 63.38-69.59 |
| 65 and over (crude ¹), total | 59.9 | 58.29-61.49 |
| 65 and over (crude ¹), male | 55.9 | 53.71-58.01 |
| 65 and over (crude ¹), female | 63.0 | 60.84-65.24 |
| 65 and over (age-adjusted ²), total | 60.4 | 58.86-62.01 |
| 65 and over (age-adjusted ²), male | 57.3 | 55.13-59.39 |
| 65 and over (age-adjusted ²), female | 63.2 | 60.99-65.37 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

| Race/ethnicity | Crude ¹ percent (95% confidence interval) | Age-adjusted ² percent (95% confidence interval) |
|--|---|--|
| Hispanic or Latino | 43.4 (38.79-47.97) | 43.6 (38.82-48.34) |
| Not Hispanic or Latino, single race, white | 64.0 (62.24-65.70) | 64.4 (62.70-66.07) |
| Not Hispanic or Latino, single race, black | 46.4 (42.11-50.65) | 47.0 (42.68-51.28) |

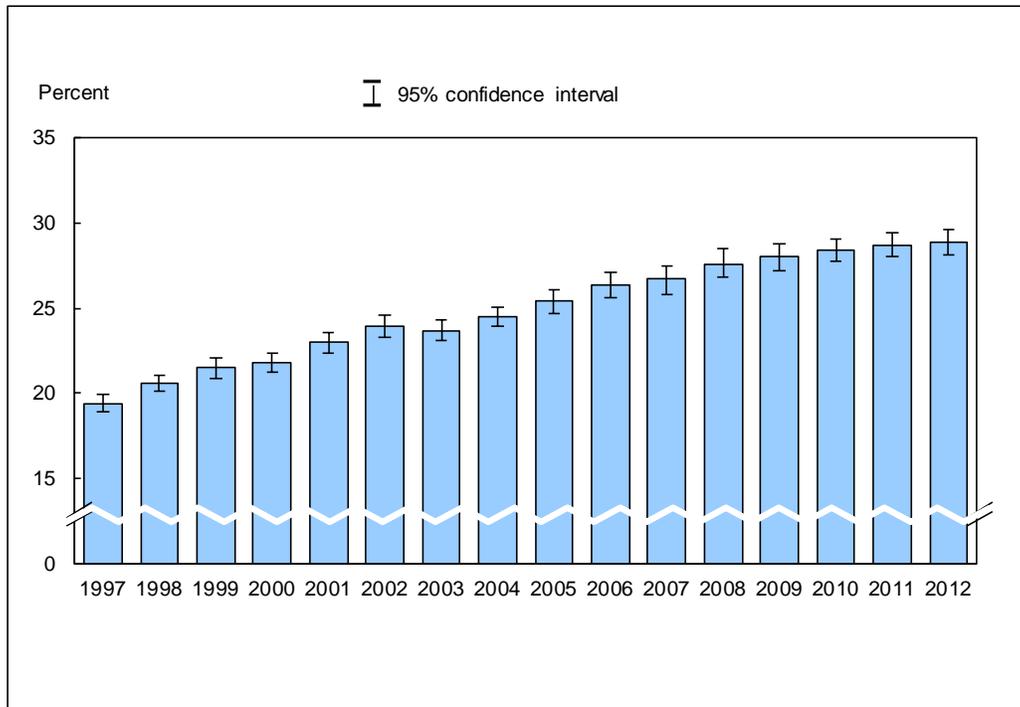
¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 6.1. Prevalence of obesity among adults aged 20 and over: United States, 1997–2012

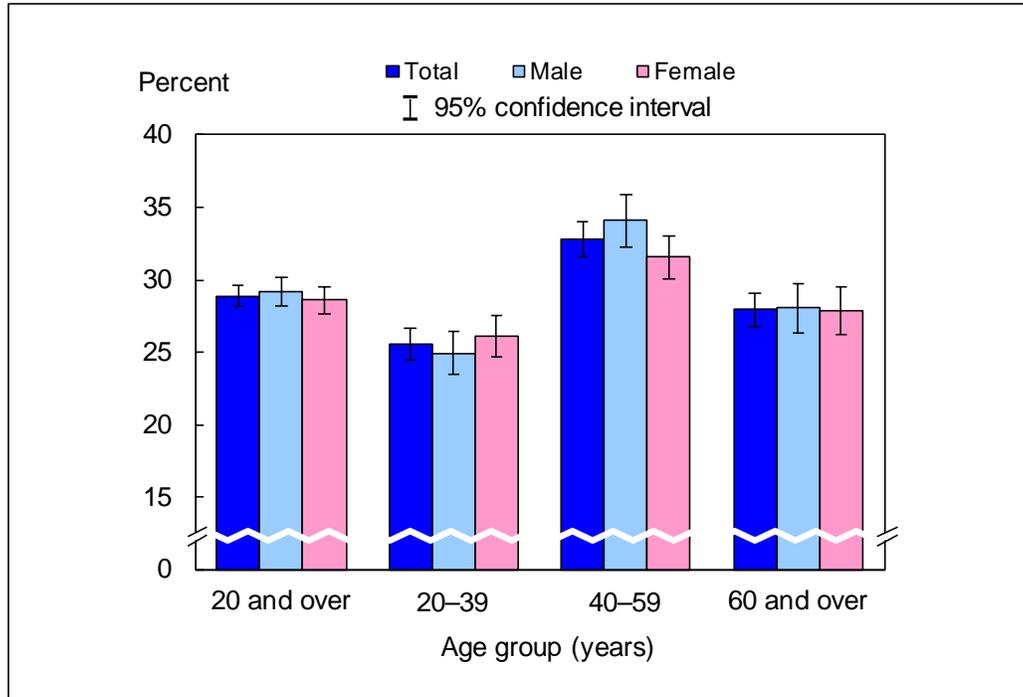


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, 28.9% (95% confidence interval = 28.14%–29.61%) of U.S. adults aged 20 and over were obese. This was not significantly different from the 2011 estimate of 28.7%.
- The prevalence of obesity among U.S. adults aged 20 and over increased from 19.4% in 1997 to 28.9% in 2012.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Obesity is defined as a body mass index (BMI) 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.

Figure 6.2. Prevalence of obesity among adults aged 20 and over, by age group and sex: United States, 2012

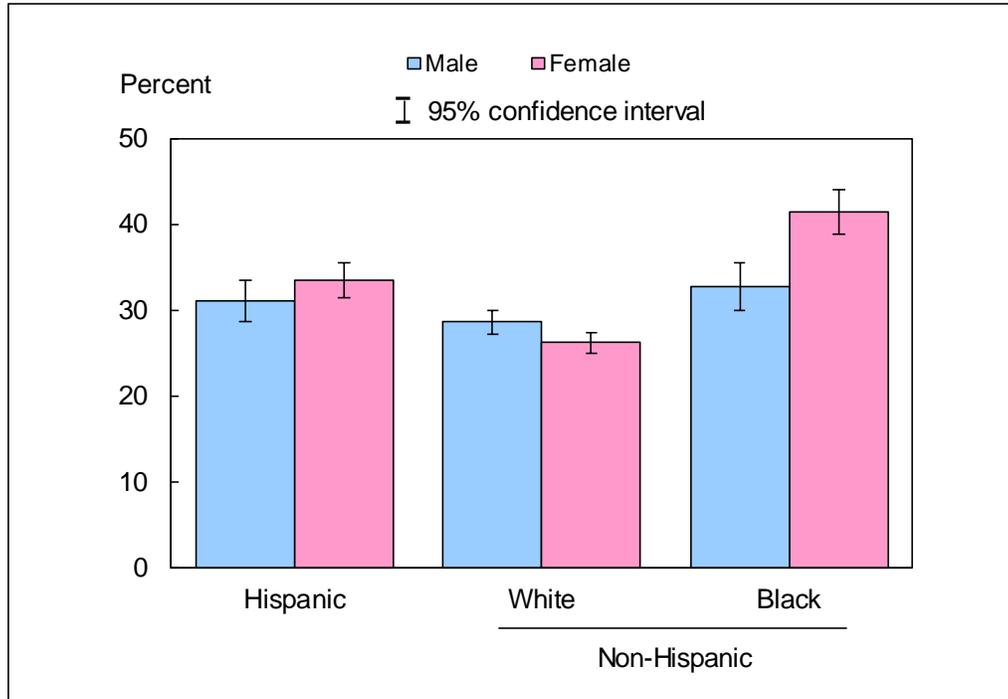


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For both sexes combined, the prevalence of obesity was higher among adults aged 40–59 (32.8%) than among those aged 20–39 (25.5%) and those aged 60 and over (27.9%).
- For adults aged 40–59, men were more likely than women to be obese.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Obesity is defined as a body mass index (BMI) 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 the 4.4% of persons with unknown height or weight. • See [Technical Notes](#) for more details.

Figure 6.3. Age-adjusted prevalence of obesity among adults aged 20 and over, by sex and race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- Non-Hispanic white women (26.3%) were less likely than Hispanic women (33.5%) and non-Hispanic black women (41.4%) to be obese.
- Non-Hispanic white men (28.6%) were less likely than non-Hispanic black men (32.8%) to be obese.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Obesity is defined as a body mass index (BMI) 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 the 4.4% of persons with unknown height or weight. • Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using five age groups: 20–24, 25–34, 35–44, 45–64, and 65 and over. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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 the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 20-39, total | 25.5 | 24.47-26.62 |
| 20-39, male | 24.9 | 23.49-26.41 |
| 20-39, female | 26.1 | 24.73-27.55 |
| 40-59, total | 32.8 | 31.59-34.06 |
| 40-59, male | 34.1 | 32.30-35.84 |
| 40-59, female | 31.6 | 30.04-33.07 |
| 60 and over, total | 27.9 | 26.78-29.11 |
| 60 and over, male | 28.0 | 26.38-29.69 |
| 60 and over, female | 27.9 | 26.24-29.50 |
| 20 and over (crude ¹), total | 28.9 | 28.14-29.61 |
| 20 and over (crude ¹), male | 29.2 | 28.21-30.13 |
| 20 and over (crude ¹), female | 28.6 | 27.67-29.50 |
| 20 and over (age-adjusted ²), total | 28.7 | 27.94-29.43 |
| 20 and over (age-adjusted ²), male | 28.9 | 27.89-29.83 |
| 20 and over (age-adjusted ²), female | 28.5 | 27.58-29.40 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

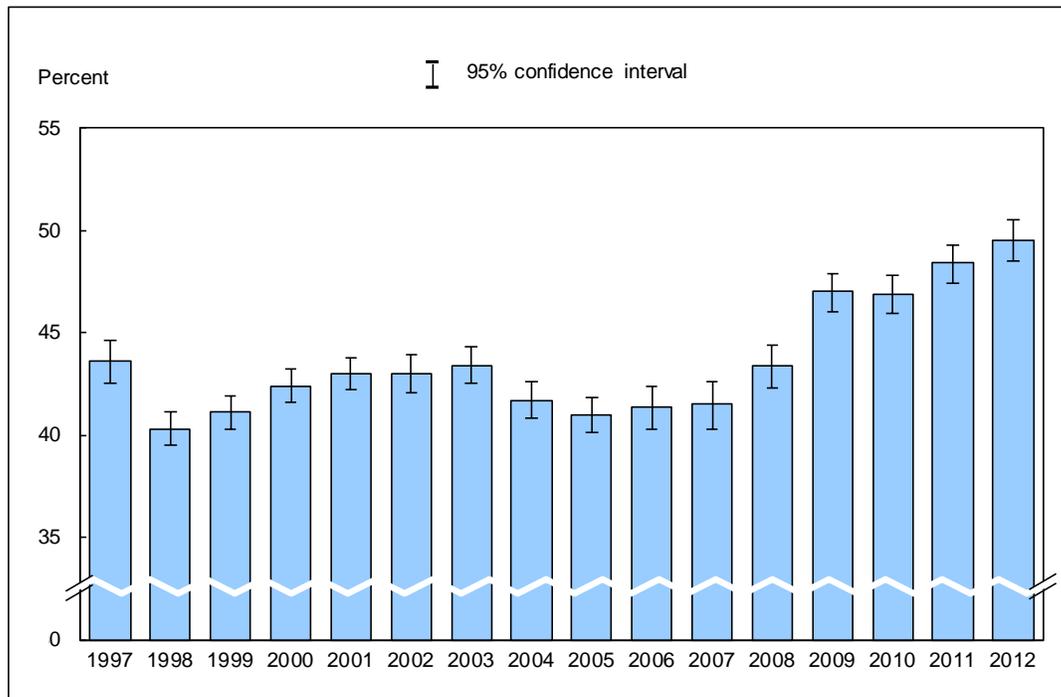
| Sex and race/ethnicity | Percent¹ | 95% confidence interval |
|--|----------------------------|--------------------------------|
| Male, Hispanic or Latino | 31.2 | 28.74-33.61 |
| Male, not Hispanic or Latino, single race, white | 28.6 | 27.33-29.93 |
| Male, not Hispanic or Latino, single race, black | 32.8 | 30.03-35.51 |
| Female, Hispanic or Latina | 33.5 | 31.43-35.59 |
| Female, not Hispanic or Latina, single race, white | 26.3 | 25.11-27.50 |
| Female, not Hispanic or Latina, single race, black | 41.4 | 38.93-43.96 |

¹Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 7.1. Percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity: United States, 1997–2012

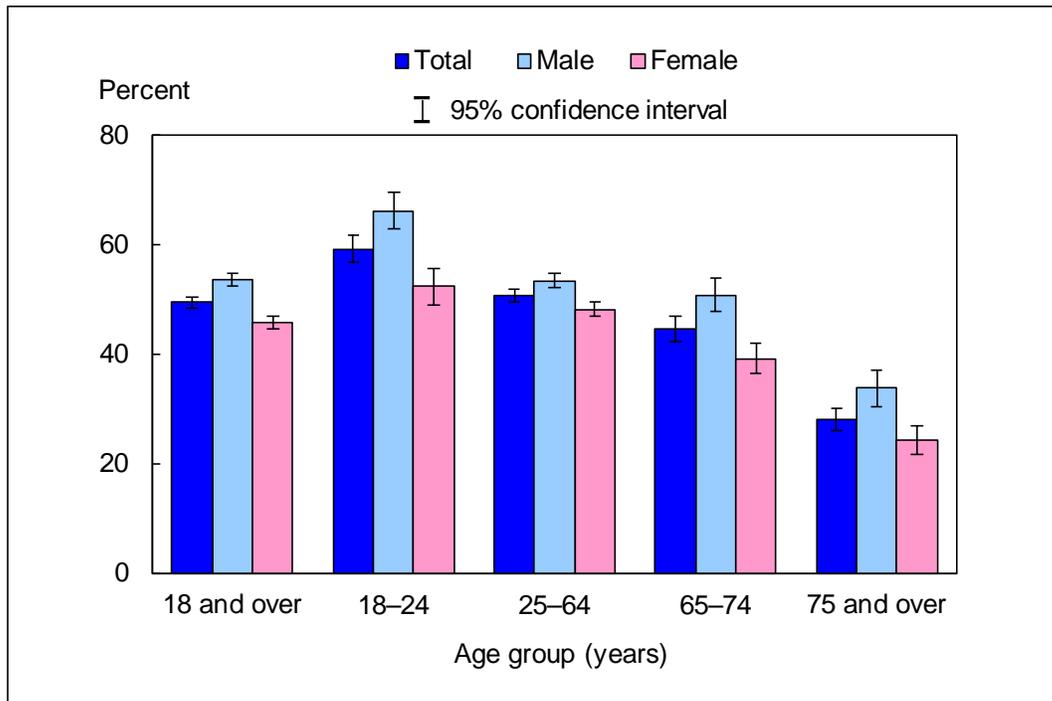


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, 49.5% (95% confidence interval = 48.51%–50.49%) of U.S. adults aged 18 and over met the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity). This was higher than, but not significantly different from, the 2011 estimate of 48.4%.
- 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) increased from 41.5% in 2007 to 49.5% in 2012.

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, or 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 it should be spread throughout the week. The 2008 guidelines were applied to leisure-time activity data back to 1997 to derive the aerobic activity estimates in this figure, allowing trend analysis. • The analyses excluded persons with unknown physical activity participation (about 3% of respondents each year). • See [Technical Notes](#) for more details.

Figure 7.2. Percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by age group and sex: United States, 2012

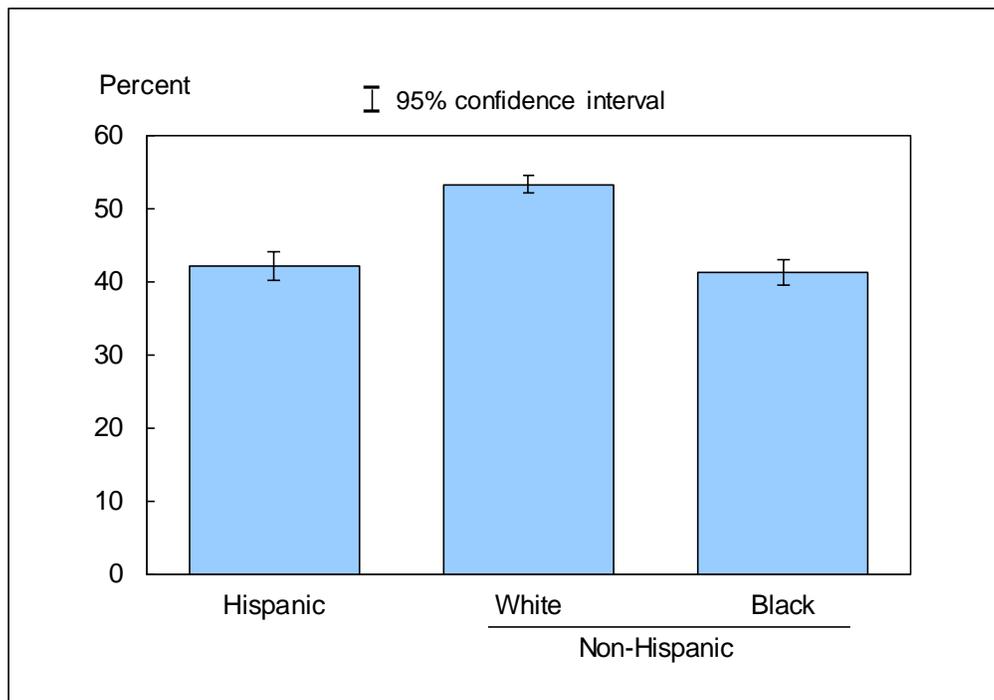


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- 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.
- For all age groups, women were less likely than men to meet the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity).

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, or 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 it should be spread throughout the week. • The analyses excluded the 2.2% of persons with unknown physical activity participation. • See [Technical Notes](#) for more details.

Figure 7.3. Age-sex-adjusted percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by race/ethnicity: United States, 2012

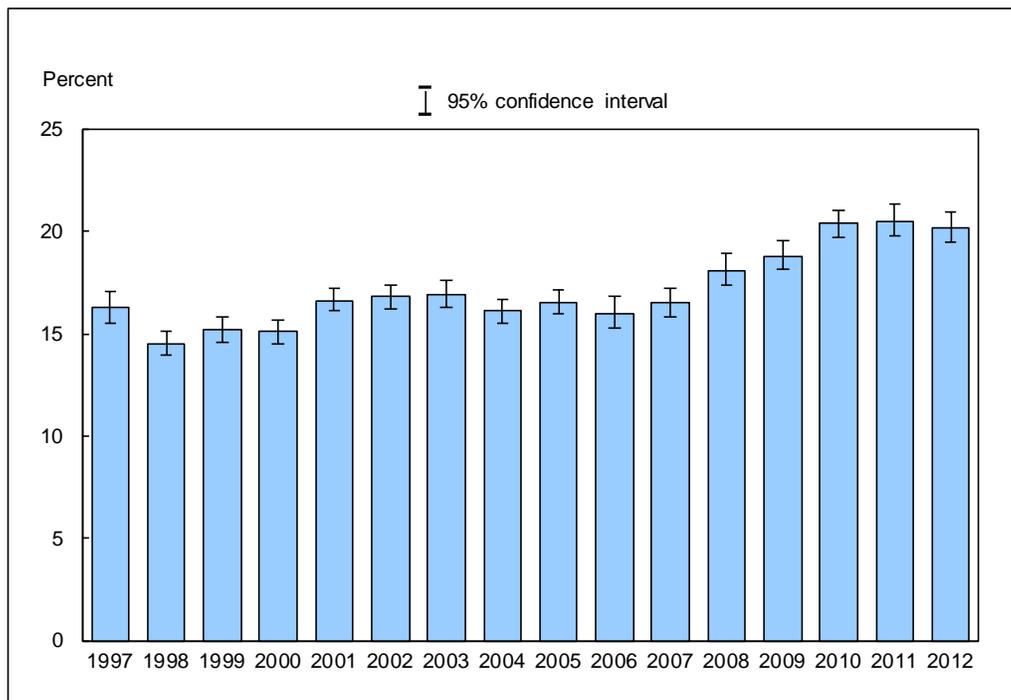


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted percentage of adults who met the 2008 federal physical activity guidelines for aerobic activity (based on leisure-time activity) was 42.2% for Hispanic adults, 53.3% for non-Hispanic white adults, and 41.3% 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) than Hispanic adults and non-Hispanic black adults.

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, or 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 it should be spread throughout the week. • The analyses excluded the 2.2% of persons with unknown physical activity participation. • Estimates 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. • See [Technical Notes](#) for more details.

Figure 7.4. Percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities: United States, 1997–2012

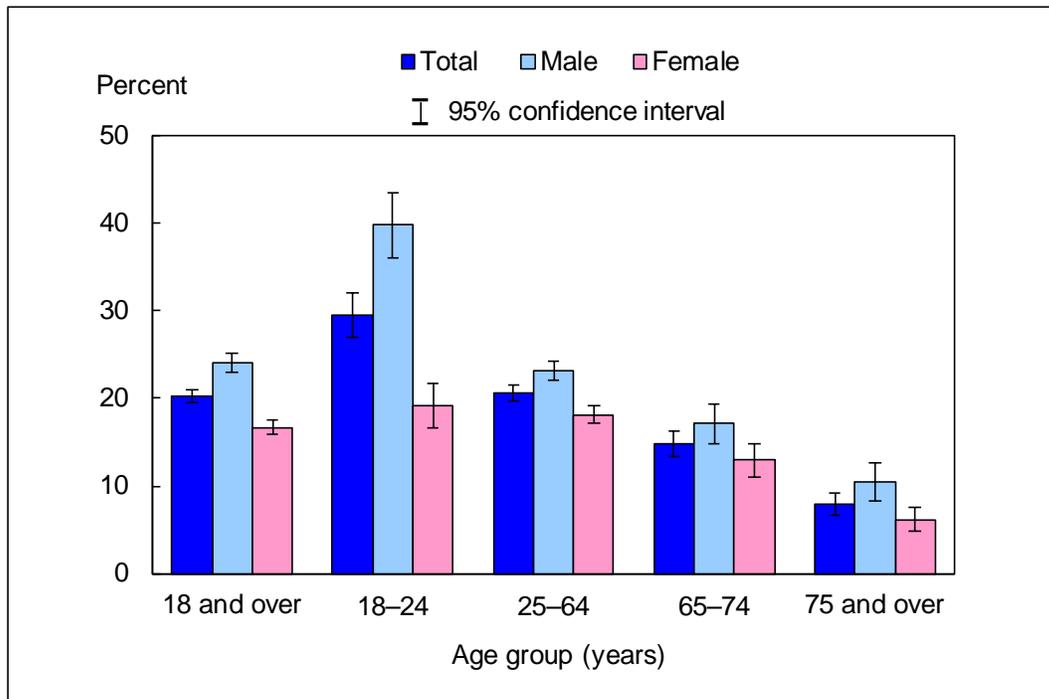


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, 20.2% (95% confidence interval = 19.45%–20.99%) 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 was not significantly different from the 2011 estimate of 20.5%.
- The annual percentages 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) increased from 16.3% in 1997 to 20.2% in 2012.

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 activities, 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, or 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 it should be spread throughout the week. The 2008 guidelines also recommend that adults perform muscle-strengthening activities that are moderate or high intensity and involve all major muscle groups on two 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 back to 1997 to derive the aerobic activity and muscle-strengthening estimates in this figure, allowing trend analysis. • The analyses excluded persons with unknown physical activity participation (about 3% of respondents each year). • See [Technical Notes](#) for more details.

Figure 7.5. Percentage of adults aged 18 and over who met the 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, 2012

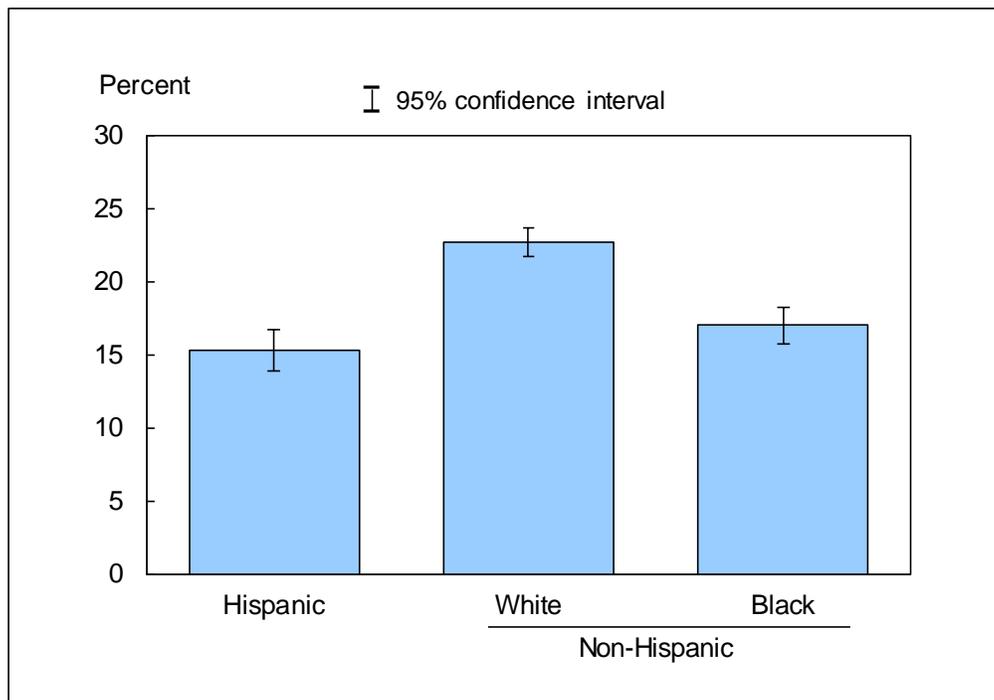


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- As age increased, the percentage of men who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) decreased. The same decreasing pattern was found among women aged 25 and over. Women aged 18–24 and 25–64 were more likely to have met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) than women aged 65–74 and 75 and over.
- For all age groups, women were less likely than men to meet the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities).

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 activities, 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, or 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 it should be spread throughout the week. The 2008 guidelines also recommend that adults perform muscle-strengthening activities that are moderate or high intensity and involve all major muscle groups on two 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 analyses excluded the 2.4% of persons with unknown physical activity participation. • See [Technical Notes](#) for more details.

Figure 7.6. Age-sex-adjusted percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted percentage of adults who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities (based on leisure-time activities) was 15.3% for Hispanic adults, 22.7% for non-Hispanic white adults, and 17.0% 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) than non-Hispanic black adults and Hispanic adults.

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 activities, 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, or 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 it should be spread throughout the week. The 2008 guidelines also recommend that adults perform muscle-strengthening activities that are moderate or high intensity and involve all major muscle groups on two 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 analyses excluded the 2.4% of persons with unknown physical activity participation. • Estimates 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. • See [Technical Notes](#) for more details.

Data tables for Figures 7.1–7.6:

Data table for Figure 7.1. Percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity: United States, 1997–2012

| Year | Crude ¹ percent (95% confidence interval) | Age-adjusted ² percent (95% confidence interval) |
|------|---|--|
| 1997 | 43.6 (42.5-44.6) | 43.3 (42.2-44.3) |
| 1998 | 40.3 (39.5-41.1) | 40.1 (39.3-40.9) |
| 1999 | 41.1 (40.3-41.9) | 40.9 (40.2-41.7) |
| 2000 | 42.4 (41.6-43.2) | 42.3 (41.5-43.1) |
| 2001 | 43.0 (42.2-43.8) | 42.9 (42.1-43.7) |
| 2002 | 43.0 (42.1-43.9) | 42.9 (42.1-43.8) |
| 2003 | 43.4 (42.5-44.3) | 43.3 (42.4-44.2) |
| 2004 | 41.7 (40.8-42.6) | 41.6 (40.8-42.5) |
| 2005 | 41.0 (40.18-41.89) | 41.1 (40.21-41.90) |
| 2006 | 41.4 (40.31-42.42) | 41.4 (40.37-42.47) |
| 2007 | 41.5 (40.36-42.63) | 41.5 (40.33-42.59) |
| 2008 | 43.4 (42.33-44.47) | 43.5 (42.43-44.58) |
| 2009 | 47.0 (46.05-47.95) | 47.2 (46.25-48.16) |
| 2010 | 46.9 (45.96-47.78) | 47.1 (46.20-47.98) |
| 2011 | 48.4 (47.42-49.30) | 48.7 (47.76-49.61) |
| 2012 | 49.5 (48.51-50.49) | 49.9 (48.92-50.87) |

¹Crude estimates are presented in the figure.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

Data table for Figure 7.2. Percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by age group and sex: United States, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-24, total | 59.3 | 56.78-61.74 |
| 18-24, male | 66.2 | 62.88-69.49 |
| 18-24, female | 52.3 | 48.98-55.71 |
| 25-64, total | 50.8 | 49.62-51.88 |
| 25-64, male | 53.4 | 52.03-54.82 |
| 25-64, female | 48.2 | 46.85-49.55 |
| 65-74, total | 44.6 | 42.40-46.84 |
| 65-74, male | 50.8 | 47.70-53.91 |
| 65-74, female | 39.2 | 36.40-42.08 |
| 75 and over, total | 28.1 | 26.12-30.07 |
| 75 and over, male | 33.8 | 30.39-37.13 |
| 75 and over, female | 24.3 | 21.75-26.82 |
| 18 and over (crude ¹), total | 49.5 | 48.51-50.49 |
| 18 and over (crude ¹), male | 53.6 | 52.40-54.86 |
| 18 and over (crude ¹), female | 45.7 | 44.54-46.83 |
| 18 and over (age-adjusted ²), total | 49.9 | 48.92-50.87 |
| 18 and over (age-adjusted ²), male | 53.8 | 52.54-55.01 |
| 18 and over (age-adjusted ²), female | 46.3 | 45.22-47.46 |

¹Crude estimates are presented in the figure.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Data table for Figure 7.3. Adjusted percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for aerobic activity through leisure-time aerobic activity, by race/ethnicity: United States, 2012

| Race/ethnicity | Age-sex-adjusted¹ percent (95% confidence interval) | Age-adjusted² percent (95% confidence interval) |
|--|---|---|
| Hispanic or Latino | 42.2 (40.26-44.11) | 42.3 (40.36-44.24) |
| Not Hispanic or Latino, single race, white | 53.3 (52.08-54.54) | 53.4 (52.14-54.61) |
| Not Hispanic or Latino, single race, black | 41.3 (39.51-43.03) | 40.8 (39.09-42.53) |

¹Age-sex-adjusted estimates are presented in the figure. Estimates 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.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Data table for Figure 7.4. Percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities: United States, 1997–2012

| Year | Crude ¹ percent (95% confidence interval) | Age-adjusted ² percent (95% confidence interval) |
|------|---|--|
| 1997 | 16.3 (15.5-17.1) | 16.1 (15.3-16.9) |
| 1998 | 14.5 (14.0-15.1) | 14.4 (13.9-14.9) |
| 1999 | 15.2 (14.6-15.8) | 15.0 (14.5-15.6) |
| 2000 | 15.1 (14.5-15.7) | 15.0 (14.5-15.6) |
| 2001 | 16.6 (16.1-17.2) | 16.5 (16.0-17.1) |
| 2002 | 16.8 (16.2-17.4) | 16.7 (16.2-17.3) |
| 2003 | 16.9 (16.3-17.6) | 16.9 (16.3-17.5) |
| 2004 | 16.1 (15.5-16.7) | 16.1 (15.5-16.7) |
| 2005 | 16.5 (15.96-17.13) | 16.6 (15.99-17.14) |
| 2006 | 16.0 (15.30-16.80) | 16.1 (15.37-16.87) |
| 2007 | 16.5 (15.79-17.19) | 16.5 (15.83-17.20) |
| 2008 | 18.1 (17.38-18.91) | 18.2 (17.49-19.00) |
| 2009 | 18.8 (18.14-19.56) | 19.0 (18.32-19.75) |
| 2010 | 20.4 (19.69-21.06) | 20.6 (19.90-21.25) |
| 2011 | 20.5 (19.79-21.31) | 20.8 (20.05-21.56) |
| 2012 | 20.2 (19.45-20.99) | 20.6 (19.79-21.31) |

¹Crude estimates are presented in the figure.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

Data table for Figure 7.5. Percentage of adults aged 18 and over who met the 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-24, total | 29.5 | 27.05-31.98 |
| 18-24, male | 39.8 | 35.98-43.55 |
| 18-24, female | 19.3 | 16.71-21.79 |
| 25-64, total | 20.6 | 19.80-21.46 |
| 25-64, male | 23.2 | 22.12-24.33 |
| 25-64, female | 18.2 | 17.19-19.13 |
| 65-74, total | 14.9 | 13.41-16.34 |
| 65-74, male | 17.1 | 14.85-19.34 |
| 65-74, female | 12.9 | 11.05-14.84 |
| 75 and over, total | 7.9 | 6.70-9.11 |
| 75 and over, male | 10.5 | 8.36-12.57 |
| 75 and over, female | 6.2 | 4.80-7.58 |
| 18 and over (crude ¹), total | 20.2 | 19.45-20.99 |
| 18 and over (crude ¹), male | 24.0 | 22.97-25.09 |
| 18 and over (crude ¹), female | 16.7 | 15.89-17.51 |
| 18 and over (age-adjusted ²), total | 20.6 | 19.79-21.31 |
| 18 and over (age-adjusted ²), male | 24.3 | 23.23-25.29 |
| 18 and over (age-adjusted ²), female | 17.0 | 16.19-17.83 |

¹Crude estimates are presented in the figure.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Data table for Figure 7.6. Adjusted percentage of adults aged 18 and over who met the 2008 federal physical activity guidelines for both aerobic and muscle-strengthening activities through leisure-time aerobic and muscle-strengthening activities, by race/ethnicity: United States, 2012

| Race/ethnicity | Age-sex-adjusted¹ percent (95% confidence interval) | Age-adjusted² percent (95% confidence interval) |
|--|---|---|
| Hispanic or Latino | 15.3 (13.94-16.69) | 15.4 (13.98-16.80) |
| Not Hispanic or Latino, single race, white | 22.7 (21.76-23.73) | 22.8 (21.77-23.75) |
| Not Hispanic or Latino, single race, black | 17.0 (15.80-18.26) | 16.5 (15.36-17.70) |

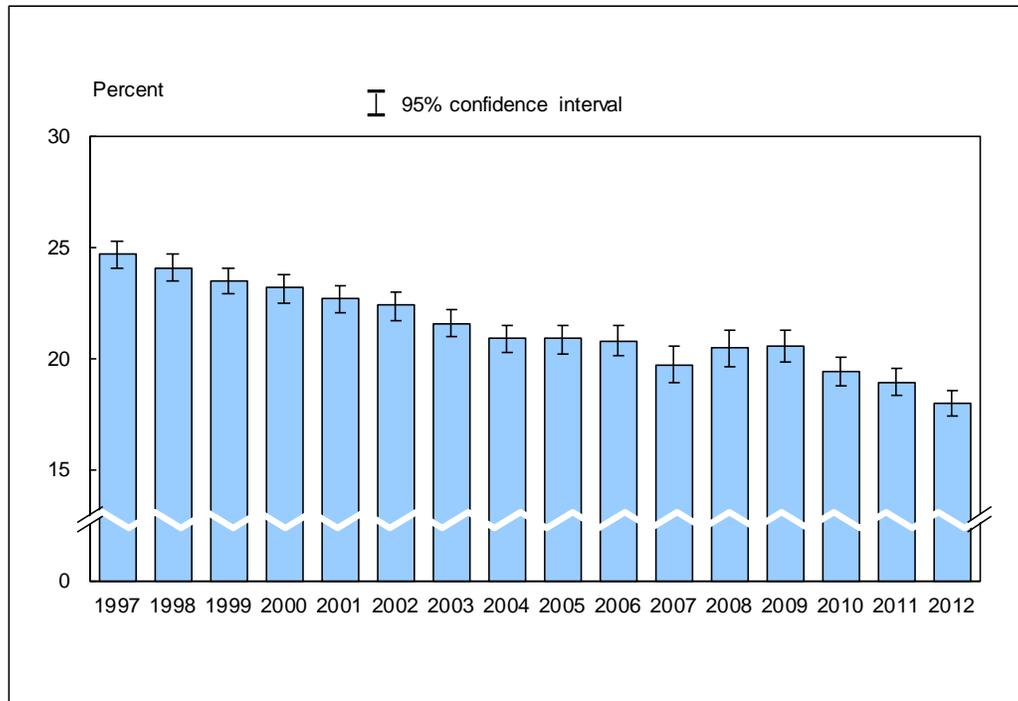
¹Age-sex-adjusted estimates are presented in the figure. Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 8.1. Prevalence of current smoking among adults aged 18 and over: United States, 1997–2012

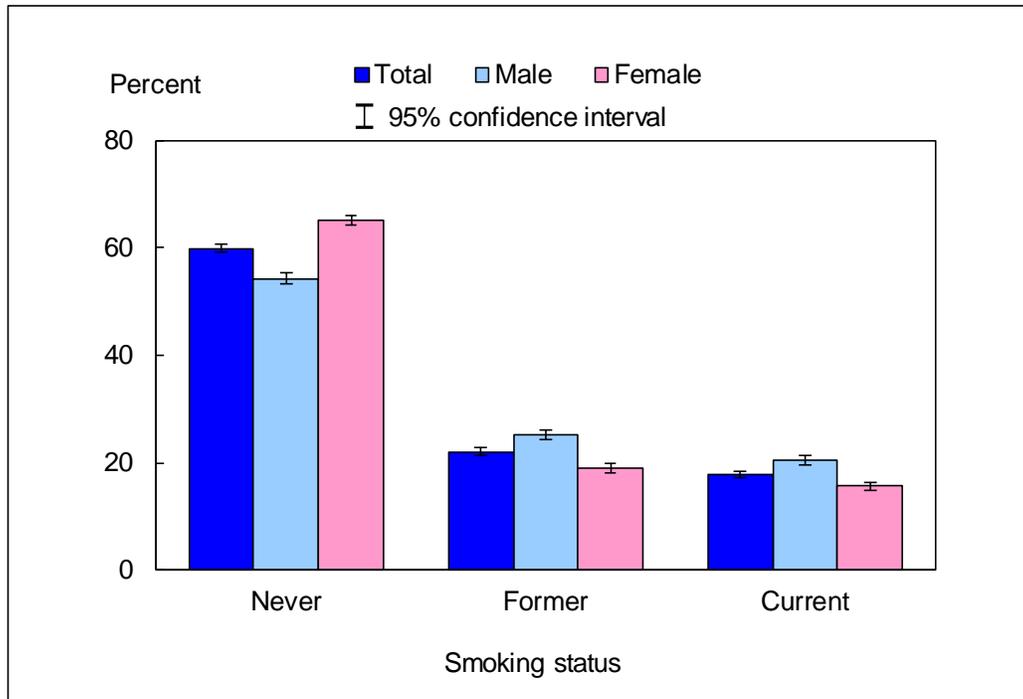


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, the percentage of adults aged 18 and over who were current smokers was 18.0% (95% confidence interval = 17.40%–18.56%), which was lower than the 2011 estimate of 18.9%.
- The prevalence of current smoking among U.S. adults declined from 24.7% in 1997 to 20.9% in 2005, then declined again from 20.6% in 2009 to 18.0% in 2012.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Current 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 excluded persons with unknown smoking status (about 2% of respondents each year). • See [Technical Notes](#) for more details.

Figure 8.2. Percent distribution of smoking status among adults aged 18 and over, by sex: United States, 2012

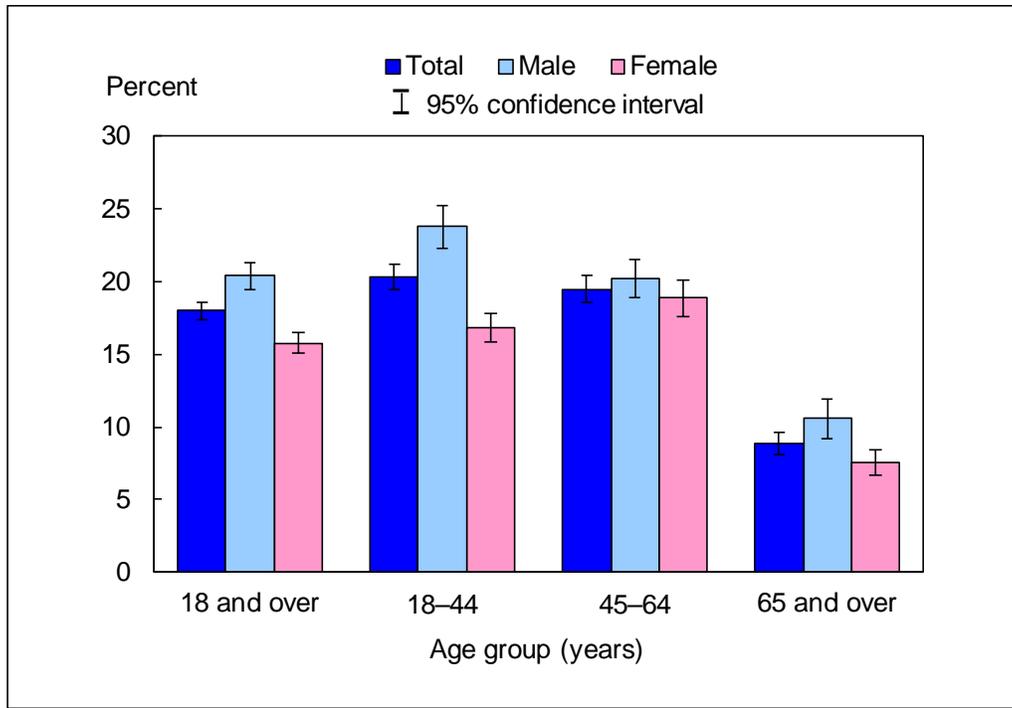


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The percentage of current smokers was higher for men (20.4%) than for women (15.8%).
- The percentage of former smokers was higher for men (25.3%) than for women (19.1%).
- The percentage of those who had never smoked was higher for women (65.2%) than for men (54.3%).

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Current 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 excluded the 0.8% of persons with unknown smoking status. • See [Technical Notes](#) for more details.

Figure 8.3. Prevalence of current smoking among adults aged 18 and over, by age group and sex: United States, 2012

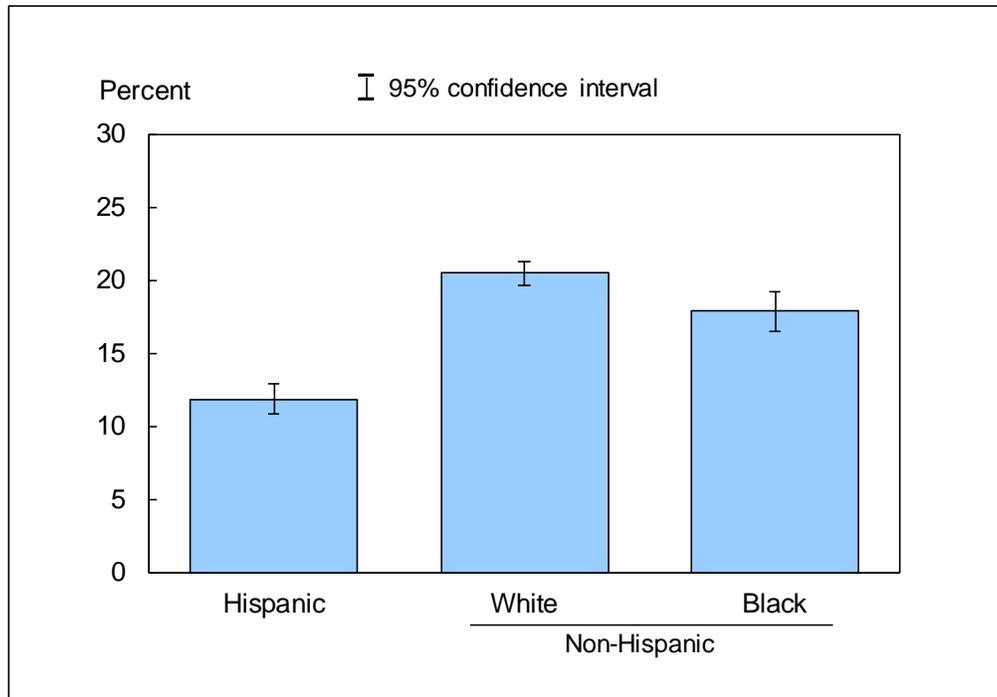


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For both sexes combined, the percentage of adults who were current smokers was lower among adults aged 65 and over (8.9%) than among those aged 18–44 (20.3%) and 45–64 (19.5%). This pattern in current smoking by age group was seen in both men and women.
- For adults aged 18 and over, and for the age groups 18–44 and 65 and over, men were more likely than women to be current smokers.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Current 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 excluded the 0.8% of persons with unknown smoking status. • See [Technical Notes](#) for more details.

Figure 8.4. Age-sex-adjusted prevalence of current smoking among adults aged 18 and over, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted prevalence of current smoking was 11.9% for Hispanic adults, 20.5% for non-Hispanic white adults, and 17.9% for non-Hispanic black adults.
- Non-Hispanic white adults were the most likely to be current smokers, followed by non-Hispanic black adults and Hispanic adults.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Current 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 excluded the 0.8% of persons with unknown smoking status. • Estimates 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. • See [Technical Notes](#) for more details.

Data tables for Figures 8.1–8.4:

Data table for Figure 8.1. Prevalence of current smoking among adults aged 18 and over: United States, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

Data table for Figure 8.2. Percent distribution of smoking status among adults aged 18 and over, by sex: United States, 2012

| Smoking status and sex | Percent | 95% confidence interval |
|------------------------|---------|-------------------------|
| Never, total | 59.9 | 59.20-60.67 |
| Never, male | 54.3 | 53.19-55.44 |
| Never, female | 65.2 | 64.19-66.11 |
| Former, total | 22.1 | 21.39-22.77 |
| Former, male | 25.3 | 24.32-26.26 |
| Former, female | 19.1 | 18.28-19.92 |
| Current, total | 18.0 | 17.40-18.56 |
| Current, male | 20.4 | 19.50-21.27 |
| Current, female | 15.8 | 15.05-16.45 |

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Data table for Figure 8.3. Prevalence of current smoking among adults aged 18 and over, by age group and sex: United States, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-44, total | 20.3 | 19.41-21.16 |
| 18-44, male | 23.8 | 22.34-25.29 |
| 18-44, female | 16.8 | 15.82-17.85 |
| 45-64, total | 19.5 | 18.59-20.40 |
| 45-64, male | 20.2 | 18.87-21.48 |
| 45-64, female | 18.9 | 17.60-20.12 |
| 65 and over, total | 8.9 | 8.07-9.66 |
| 65 and over, male | 10.6 | 9.22-11.96 |
| 65 and over, female | 7.5 | 6.62-8.40 |
| 18 and over (crude ¹), total | 18.0 | 17.40-18.56 |
| 18 and over (crude ¹), male | 20.4 | 19.50-21.27 |
| 18 and over (crude ¹), female | 15.8 | 15.05-16.45 |
| 18 and over (age-adjusted ²), total | 18.1 | 17.49-18.66 |
| 18 and over (age-adjusted ²), male | 20.4 | 19.53-21.35 |
| 18 and over (age-adjusted ²), female | 15.8 | 15.12-16.54 |

¹Crude estimates are presented in the figure.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Data table for Figure 8.4. Age-sex-adjusted prevalence of current smoking among adults aged 18 and over, by race/ethnicity: United States, 2012

| Race/ethnicity | Age-sex-adjusted ¹ percent (95% confidence interval) | Age-adjusted ² percent (95% confidence interval) |
|---|--|--|
| Hispanic or Latino | 11.9 (10.83-12.92) | 12.0 (10.93-13.06) |
| Not Hispanic or Latino, single race, white | 20.5 (19.67-21.33) | 20.5 (19.68-21.34) |
| Not Hispanic or Latino, single race, black | 17.9 (16.53-19.20) | 17.6 (16.28-18.85) |

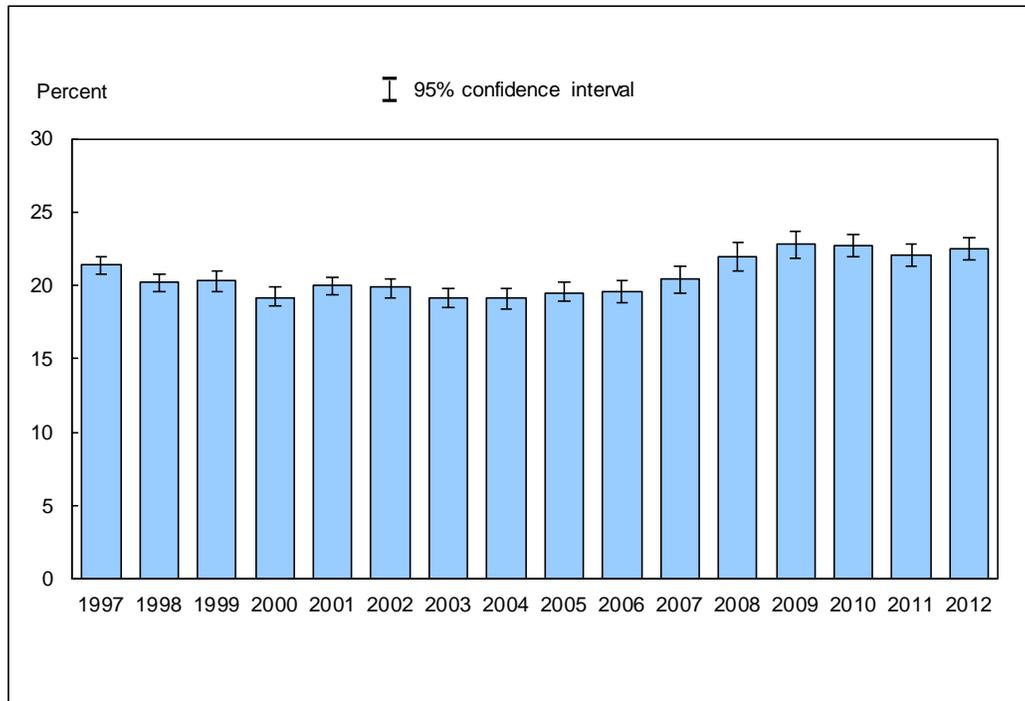
¹Age-sex-adjusted estimates are presented in the figure. Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using five age groups: 18–24, 25–34, 35–44, 45–64, and 65 and over.

²Estimates for this Healthy People 2020 Leading Health Indicator are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 9.1. Percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year: United States, 1997–2012

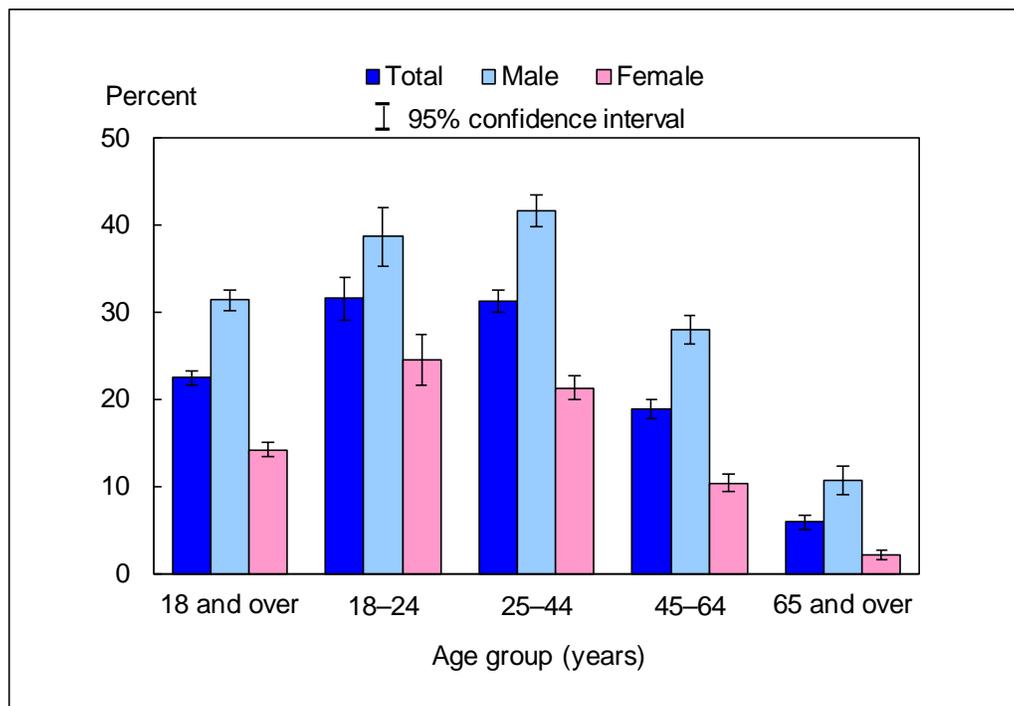


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, the percentage of adults who had five or more drinks in 1 day at least once in the past year was 22.5% (95% confidence interval = 21.70%–23.23%), which was not significantly different from the 2011 estimate of 22.1%.
- The percentage of adults who had five or more drinks in 1 day at least once in the past year was lowest in 2003 and 2004 (19.1%) and highest in 2009 (22.8%).

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded adults with unknown alcohol consumption (about 2% of respondents each year). • See [Technical Notes](#) for more details.

Figure 9.2. Percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, by age group and sex: United States, 2012

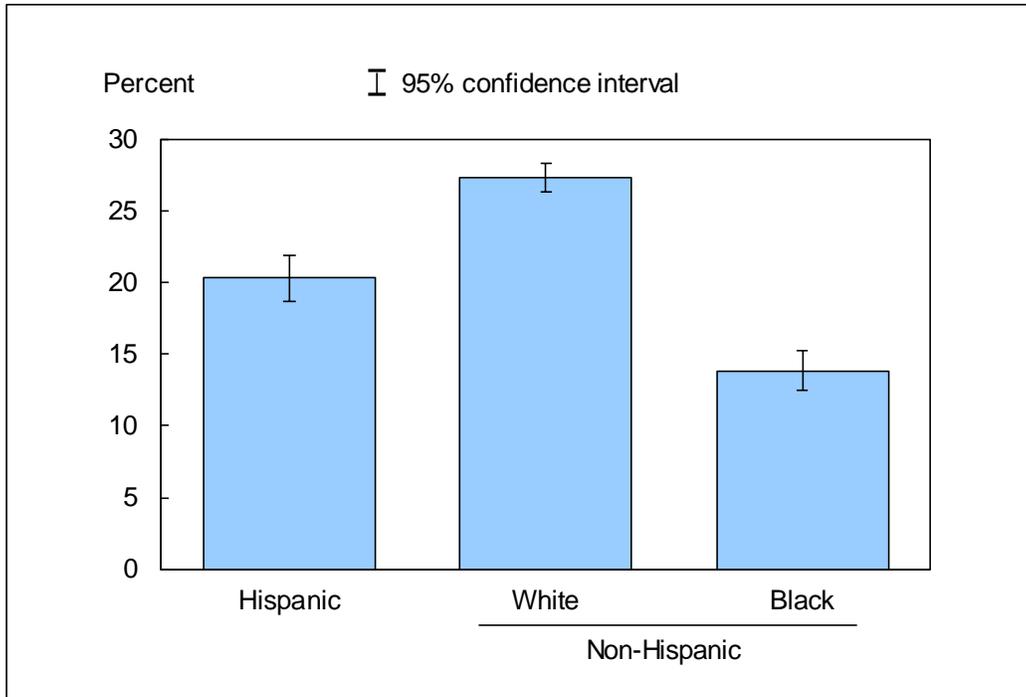


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- Among adults aged 25 and over, the percentages of women and men who had five or more drinks in 1 day at least once in the past year decreased with age.
- For all age groups, men were considerably more likely than women to have had five or more drinks in 1 day at least once in the past year.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded the 1.1% of adults with unknown alcohol consumption. • See [Technical Notes](#) for more details.

Figure 9.3. Age-sex-adjusted percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted percentage of adults who had five or more drinks in 1 day at least once in the past year was 20.3% for Hispanic adults, 27.3% for non-Hispanic white adults, and 13.8% for non-Hispanic black adults.
- Non-Hispanic white adults were the most likely to have had five or more drinks in 1 day at least once in the past year, followed by Hispanic adults and non-Hispanic black adults.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • The analyses excluded the 1.1% of adults with unknown alcohol consumption. • Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using four age groups: 18–24, 25–44, 45–64, and 65 and over. • See [Technical Notes](#) for more details.

Data tables for Figures 9.1–9.3:

Data table for Figure 9.1. Percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year: United States, 1997–2012

| Year | Crude ¹ percent (95% confidence interval) | Age-adjusted ² percent (95% confidence interval) |
|------|---|--|
| 1997 | 21.4 (20.8-22.0) | 21.1 (20.5-21.6) |
| 1998 | 20.2 (19.6-20.8) | 19.9 (19.3-20.5) |
| 1999 | 20.3 (19.6-21.0) | 20.1 (19.5-20.7) |
| 2000 | 19.2 (18.6-19.9) | 19.2 (18.6-19.8) |
| 2001 | 20.0 (19.4-20.6) | 20.0 (19.4-20.6) |
| 2002 | 19.9 (19.2-20.5) | 20.0 (19.4-20.6) |
| 2003 | 19.1 (18.5-19.8) | 19.2 (18.6-19.9) |
| 2004 | 19.1 (18.4-19.8) | 19.2 (18.6-19.9) |
| 2005 | 19.5 (18.89-20.18) | 19.8 (19.20-20.49) |
| 2006 | 19.6 (18.86-20.39) | 19.9 (19.19-20.68) |
| 2007 | 20.4 (19.44-21.34) | 20.7 (19.79-21.68) |
| 2008 | 22.0 (21.00-22.93) | 22.4 (21.47-23.38) |
| 2009 | 22.8 (21.87-23.67) | 23.3 (22.41-24.21) |
| 2010 | 22.7 (21.99-23.51) | 23.4 (22.61-24.13) |
| 2011 | 22.1 (21.34-22.87) | 22.8 (22.07-23.58) |
| 2012 | 22.5 (21.70-23.23) | 23.3 (22.54-24.07) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using four age groups: 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 the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

Data table for Figure 9.2. Percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, by age group and sex: United States, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-24, total | 31.6 | 29.16-34.05 |
| 18-24, male | 38.7 | 35.36-42.09 |
| 18-24, female | 24.5 | 21.57-27.39 |
| 25-44, total | 31.3 | 30.08-32.55 |
| 25-44, male | 41.7 | 39.87-43.55 |
| 25-44, female | 21.3 | 20.01-22.65 |
| 45-64, total | 18.9 | 17.89-19.91 |
| 45-64, male | 28.0 | 26.28-29.67 |
| 45-64, female | 10.4 | 9.46-11.37 |
| 65 and over, total | 5.9 | 5.06-6.73 |
| 65 and over, male | 10.7 | 9.07-12.28 |
| 65 and over, female | 2.2 | 1.59-2.73 |
| 18 and over (crude ¹), total | 22.5 | 21.70-23.23 |
| 18 and over (crude ¹), male | 31.4 | 30.28-32.52 |
| 18 and over (crude ¹), female | 14.2 | 13.45-15.01 |
| 18 and over (age-adjusted ²), total | 23.3 | 22.54-24.07 |
| 18 and over (age-adjusted ²), male | 31.9 | 30.80-33.06 |
| 18 and over (age-adjusted ²), female | 15.2 | 14.41-16.00 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Data table for Figure 9.3. Age-sex-adjusted percentage of adults aged 18 and over who had five or more drinks in 1 day at least once in the past year, by race/ethnicity: United States, 2012

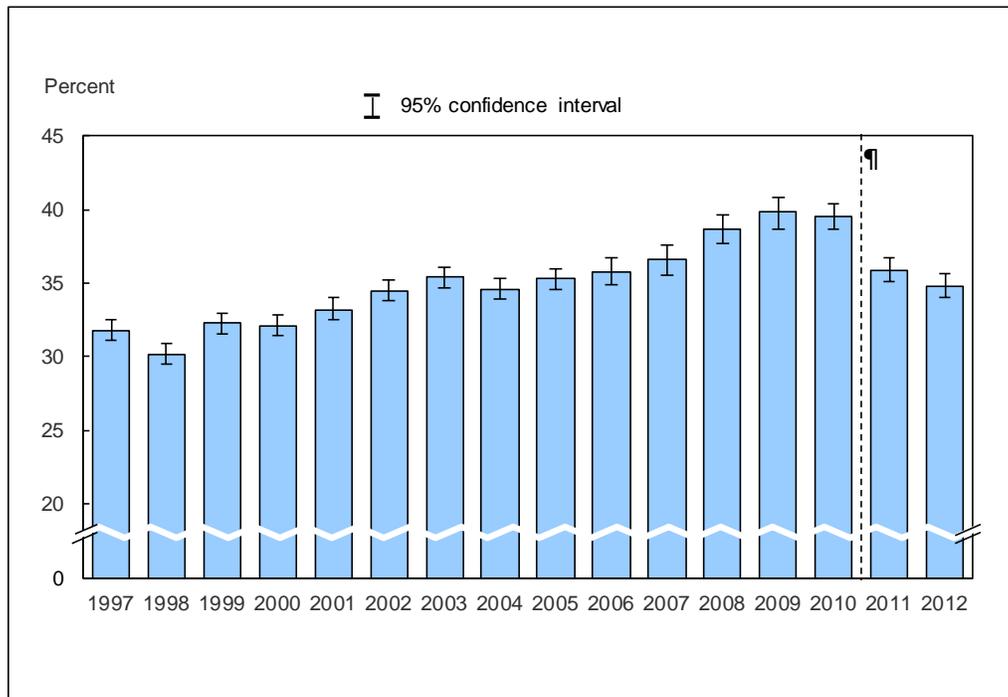
| Race/ethnicity | Percent ¹ | 95% confidence interval |
|--|----------------------|-------------------------|
| Hispanic or Latino | 20.3 | 18.68-21.91 |
| Not Hispanic or Latino, single race, white | 27.3 | 26.34-28.32 |
| Not Hispanic or Latino, single race, black | 13.8 | 12.48-15.21 |

¹Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 10.1. Percentage of adults aged 18 and over who had ever been tested for human immunodeficiency virus (HIV): United States, 1997–2012



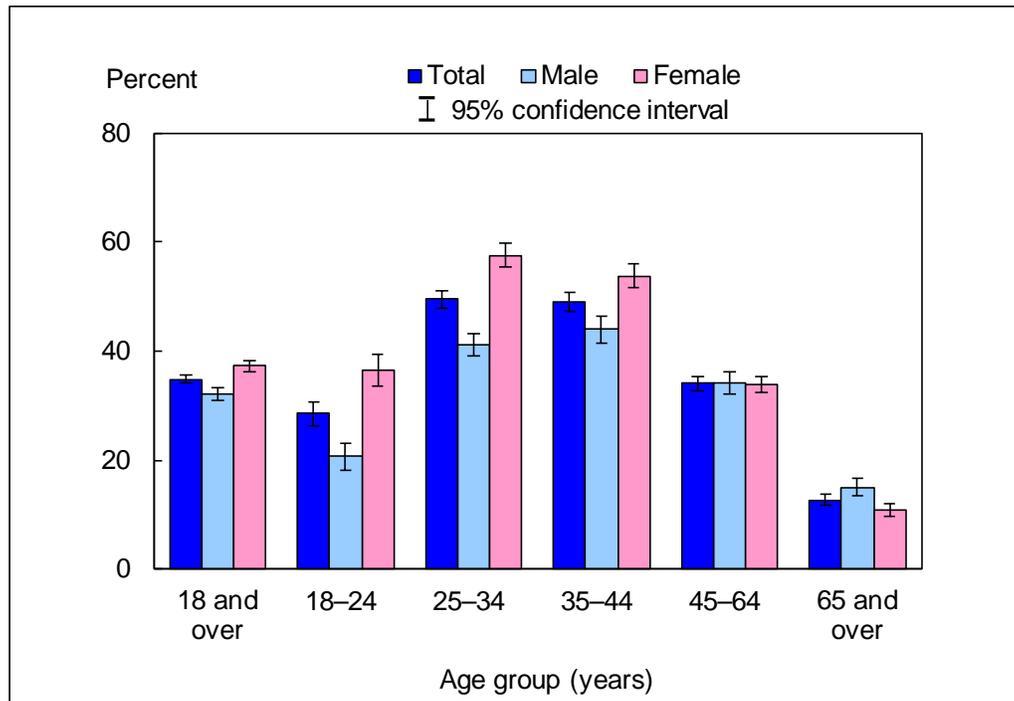
DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, the percentage of adults who had ever been tested for HIV was 34.8% (95% confidence interval = 34.04%–35.64%), which was less than, but not significantly different from, the 2011 estimate of 35.9%.
- The percentage of adults who had ever had an HIV test increased from 31.8% in 1997 to 39.5% in 2010.

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

¶ 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. This change is indicated by the dashed line in the figure. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially attributable to this change in placement of the HIV testing question on the NHIS questionnaire.

Figure 10.2. Percentage of adults aged 18 and over who had ever been tested for human immunodeficiency virus (HIV), by age group and sex: United States, 2012

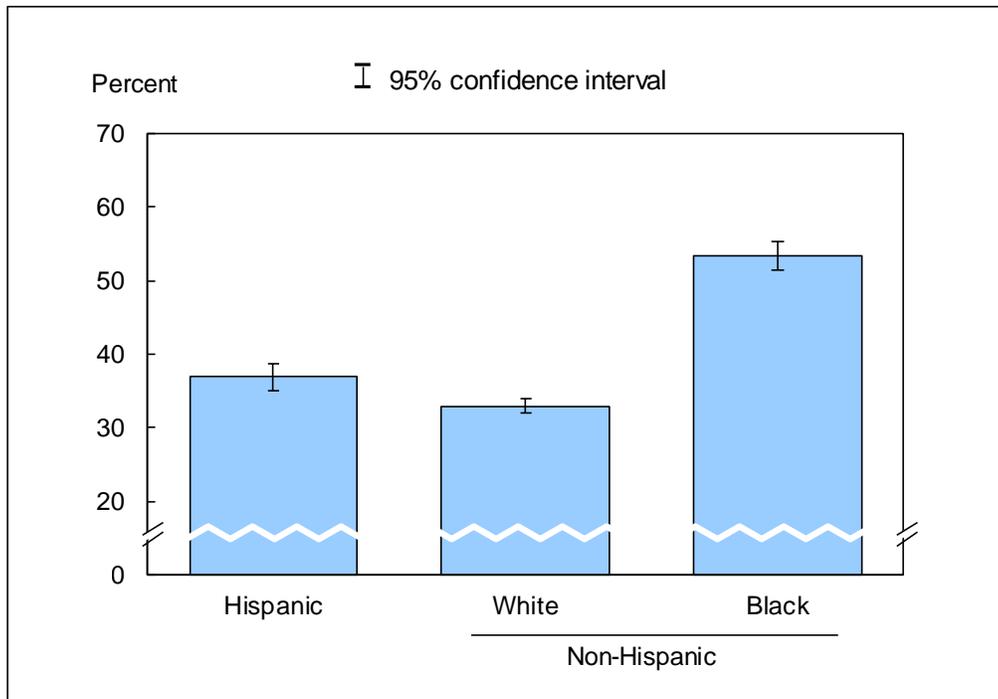


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For both sexes combined, the percentage of persons who ever had an HIV test was highest among adults aged 25–34 (49.5%) and 35–44 (49.0%) and lowest among adults aged 65 and over (12.7%).
- 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. For adults aged 65 and over, women were less likely than men to have ever had an HIV test.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Individuals who received 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. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially attributable to this change in placement of the HIV testing question on the NHIS questionnaire. • The analyses excluded the 3.9% of adults with unknown HIV test status. • See [Technical Notes](#) for more details.

Figure 10.3. Age-sex-adjusted percentage of adults aged 18 and over who had ever been tested for human immunodeficiency virus (HIV), by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted percentages of persons who ever had an HIV test were 36.9% for Hispanic persons, 32.9% for non-Hispanic white persons, and 53.4% for non-Hispanic black persons.
- Of the three race/ethnicity groups, non-Hispanic black persons were the most likely to have ever had an HIV test, followed by Hispanic persons and non-Hispanic white persons.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Individuals who received 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. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially attributable to this change in placement of the HIV testing question on the NHIS questionnaire. • The analyses excluded the 3.9% of adults with unknown HIV test status. • Estimates are age 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. • See [Technical Notes](#) for more details.

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 human immunodeficiency virus (HIV): United States, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age 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.

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. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially attributable to this change in placement of the HIV testing question on the NHIS questionnaire.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

Data table for Figure 10.2. Percentage of adults aged 18 and over who had ever been tested for human immunodeficiency virus (HIV), by age group and sex: United States, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-24, total | 28.5 | 26.40-30.65 |
| 18-24, male | 20.6 | 18.04-23.21 |
| 18-24, female | 36.5 | 33.65-39.44 |
| 25-34, total | 49.5 | 47.88-51.16 |
| 25-34, male | 41.2 | 39.19-43.31 |
| 25-34, female | 57.6 | 55.36-59.92 |
| 35-44, total | 49.0 | 47.38-50.70 |
| 35-44, male | 44.0 | 41.59-46.38 |
| 35-44, female | 53.8 | 51.58-56.08 |
| 45-64, total | 34.0 | 32.74-35.35 |
| 45-64, male | 34.1 | 32.13-36.11 |
| 45-64, female | 34.0 | 32.48-35.47 |
| 65 and over, total | 12.7 | 11.69-13.63 |
| 65 and over, male | 15.0 | 13.43-16.64 |
| 65 and over, female | 10.8 | 9.58-12.07 |
| 18-64, total | 39.6 | 38.64-40.51 |
| 18-64, male | 35.5 | 34.14-36.84 |
| 18-64, female | 43.5 | 42.49-44.55 |
| 18 and over (crude ¹), total | 34.8 | 34.04-35.64 |
| 18 and over (crude ¹), male | 32.2 | 31.03-33.44 |
| 18 and over (crude ¹), female | 37.3 | 36.37-38.15 |
| 18 and over (age-adjusted ²), total | 35.8 | 34.98-36.62 |
| 18 and over (age-adjusted ²), male | 32.6 | 31.43-33.76 |
| 18 and over (age-adjusted ²), female | 39.0 | 38.15-39.93 |

¹Crude estimates are presented in the figure.

²Estimates are age 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. 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. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially attributable to this change in placement of the HIV testing question on the NHIS questionnaire.

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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 human immunodeficiency virus (HIV), by race/ethnicity: United States, 2012

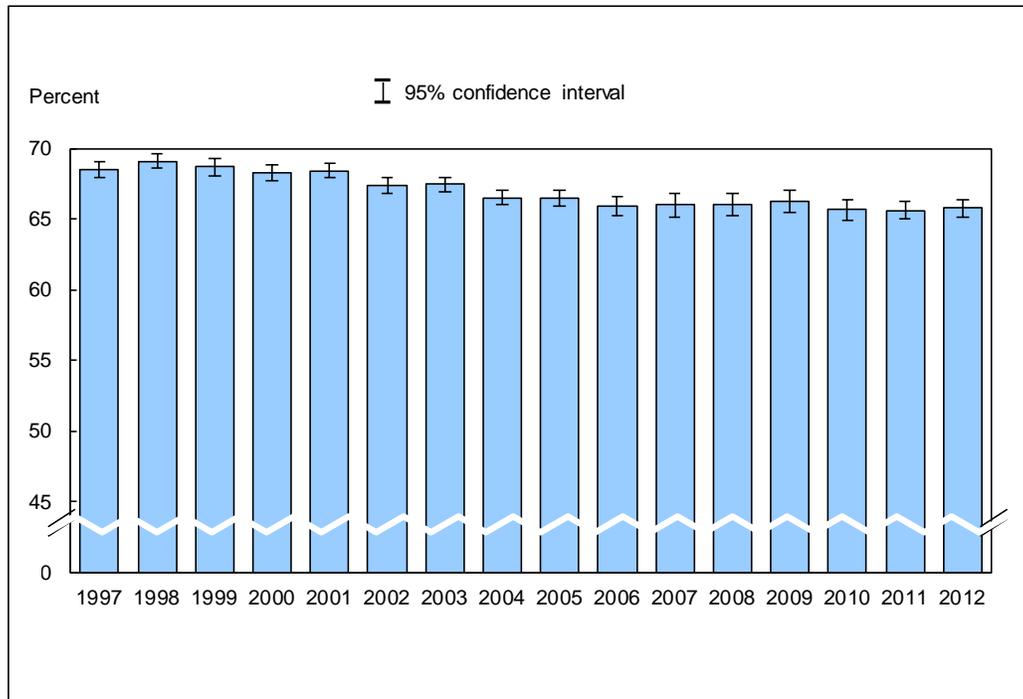
| Race/ethnicity | Percent¹ | 95% confidence interval |
|--|----------------------------|--------------------------------|
| Hispanic or Latino | 36.9 | 35.07-38.70 |
| Not Hispanic or Latino, single race, white | 32.9 | 31.92-33.86 |
| Not Hispanic or Latino, single race, black | 53.4 | 51.42-55.35 |

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. 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. Differences observed in estimates based on the 2010 and earlier NHIS and the 2011 and later NHIS may be partially attributable to this change in placement of the HIV testing question on the NHIS questionnaire.

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 11.1. Percentage of persons of all ages who had excellent or very good health: United States, 1997–2012

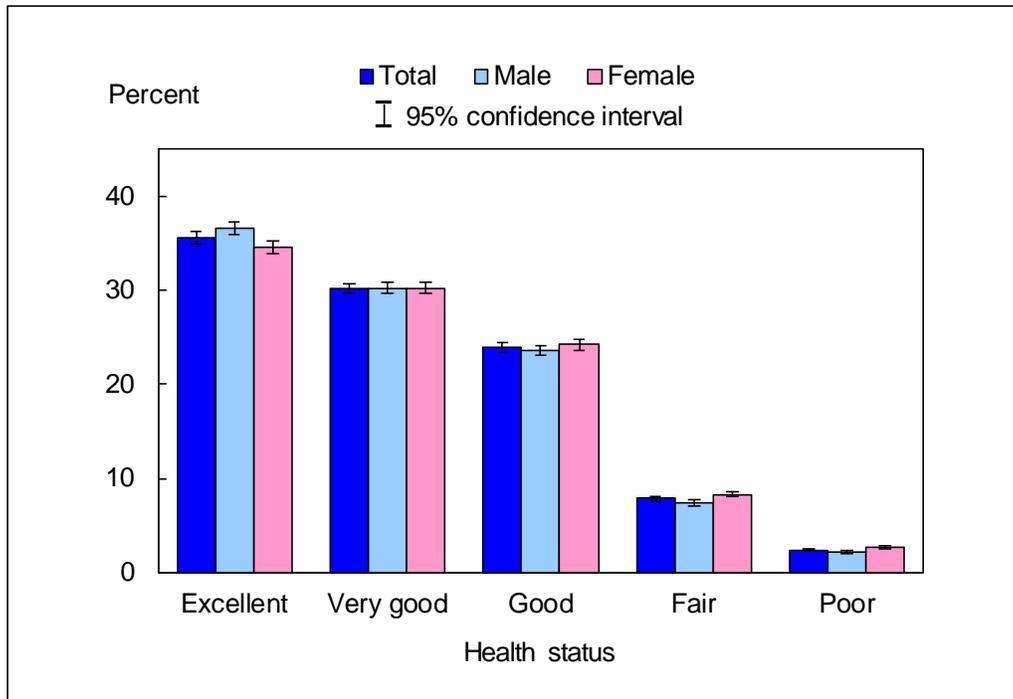


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

- For 2012, the percentage of persons who had excellent or very good health was 65.8% (95% confidence interval = 65.19%–66.41%), which was not significantly different from the 2011 estimate of 65.6%.
- The percentage of persons who had excellent or very good health decreased from 68.5% in 1997 to 65.9% in 2006.

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 excluded persons with unknown health status (about 0.2% of respondents each year). • See [Technical Notes](#) for more details.

Figure 11.2. Percent distribution of respondent-assessed health status for all ages, by sex: United States, 2012

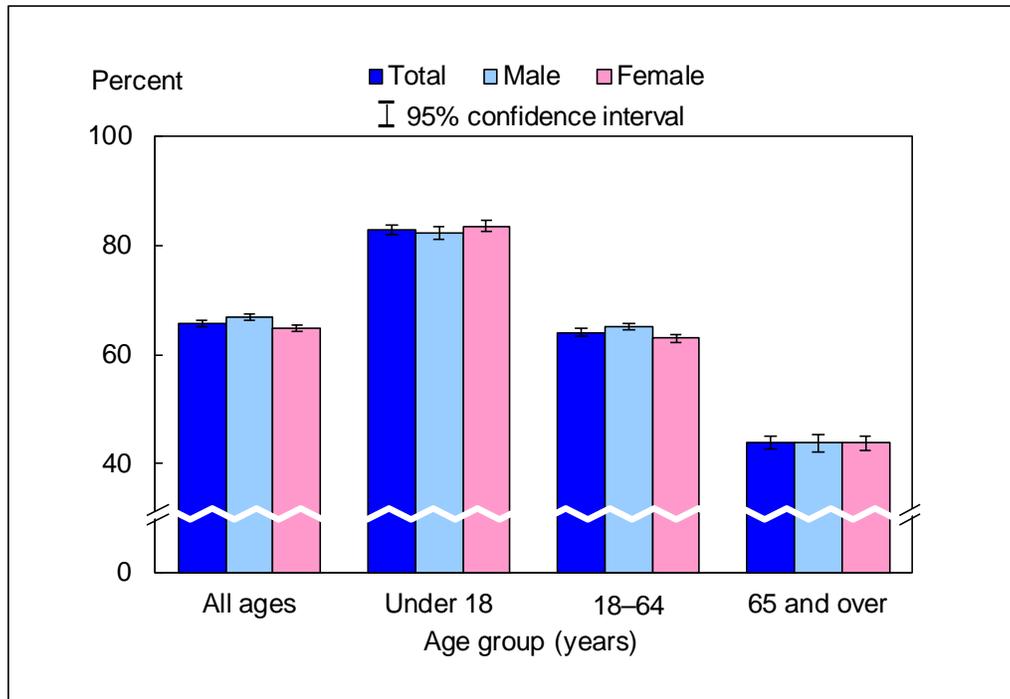


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- For both sexes combined, most persons' health was either excellent (35.6%) or very good (30.2%). Smaller percentages of persons had good (23.9%), fair (7.9%), or poor (2.4%) health.
- Compared with males, females were less likely to have excellent health and more likely to have fair or poor health.

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 excluded the 0.1% of persons with unknown health status. • See [Technical Notes](#) for more details.

Figure 11.3. Percentage of persons of all ages who had excellent or very good health, by age group and sex: United States, 2012

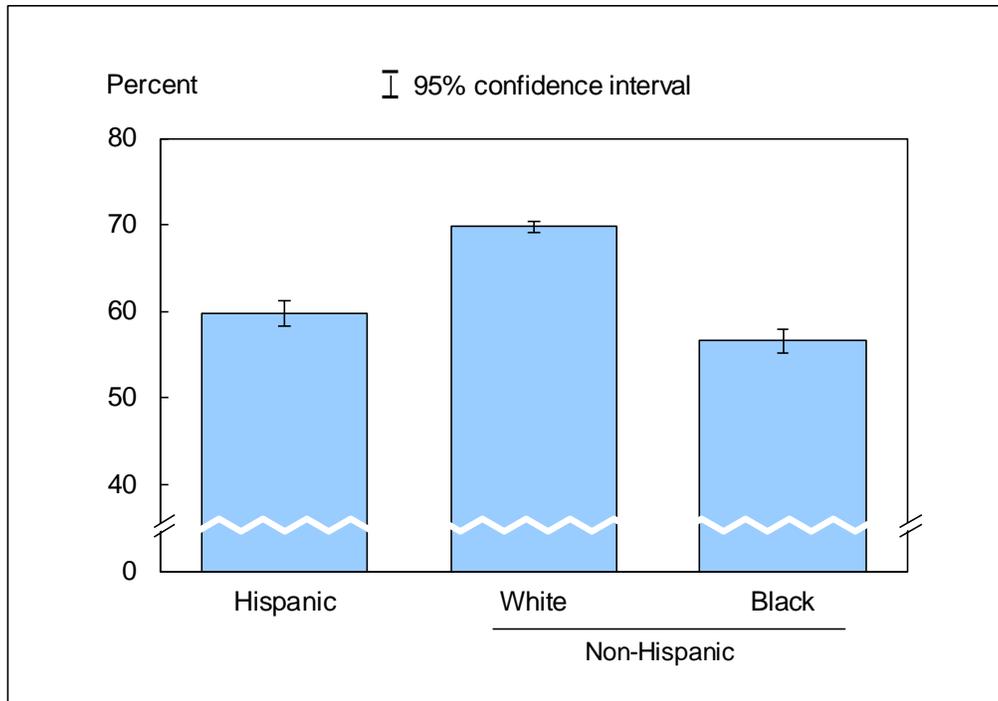


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- For both sexes combined, the percentage of persons with excellent or very good health decreased with age: 82.9% for those under age 18, 64.0% for those aged 18–64, and 43.8% for those aged 65 and over. This pattern was seen in both men and women.
- For persons of all ages combined, as well as for adults aged 18–64, males were more likely than females to have excellent or very good health.

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 excluded the 0.1% of persons with unknown health status. • See [Technical Notes](#) for more details.

Figure 11.4. Age-sex-adjusted percentage of persons of all ages who had excellent or very good health, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- After adjustment for age and sex, the percentage of persons who had excellent or very good health was 59.7% for Hispanic persons, 69.7% for non-Hispanic white persons, and 56.6% for non-Hispanic black persons.
- Of the three race/ethnicity groups, non-Hispanic white persons were the most likely to have excellent or very good health, followed by Hispanic persons and non-Hispanic black persons.

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 excluded 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 using three age groups: under 18, 18–64, and 65 and over. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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 |

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

Data table for Figure 11.2. Percent distribution of respondent-assessed health status, by sex for all ages: United States, 2012

| Health status and sex | Percent | 95% confidence interval |
|-----------------------|---------|-------------------------|
| Excellent, total | 35.6 | 34.94-36.21 |
| Excellent, male | 36.6 | 35.90-37.31 |
| Excellent, female | 34.6 | 33.88-35.29 |
| Very good, total | 30.2 | 29.70-30.76 |
| Very good, male | 30.2 | 29.65-30.78 |
| Very good, female | 30.2 | 29.60-30.88 |
| Good, total | 23.9 | 23.46-24.42 |
| Good, male | 23.6 | 23.14-24.12 |
| Good, female | 24.2 | 23.66-24.83 |
| Fair, total | 7.9 | 7.61-8.11 |
| Fair, male | 7.4 | 7.06-7.69 |
| Fair, female | 8.3 | 8.02-8.61 |
| Poor, total | 2.4 | 2.28-2.52 |
| Poor, male | 2.2 | 2.04-2.32 |
| Poor, female | 2.6 | 2.45-2.77 |

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|---|---------|-------------------------|
| Under 18, total | 82.9 | 82.03-83.81 |
| Under 18, male | 82.3 | 81.27-83.37 |
| Under 18, female | 83.6 | 82.57-84.53 |
| 18-64, total | 64.0 | 63.37-64.70 |
| 18-64, male | 65.1 | 64.44-65.83 |
| 18-64, female | 63.0 | 62.17-63.77 |
| 65 and over, total | 43.8 | 42.62-44.96 |
| 65 and over, male | 43.8 | 42.26-45.30 |
| 65 and over, female | 43.8 | 42.50-45.11 |
| All ages (crude ¹), total | 65.8 | 65.19-66.41 |
| All ages (crude ¹), male | 66.8 | 66.16-67.47 |
| All ages (crude ¹), female | 64.8 | 64.14-65.52 |
| All ages (age-adjusted ²), total | 66.3 | 65.74-66.95 |
| All ages (age-adjusted ²), male | 66.9 | 66.22-67.51 |
| All ages (age-adjusted ²), female | 65.9 | 65.17-66.53 |

¹Crude estimates are presented in the figure.

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

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

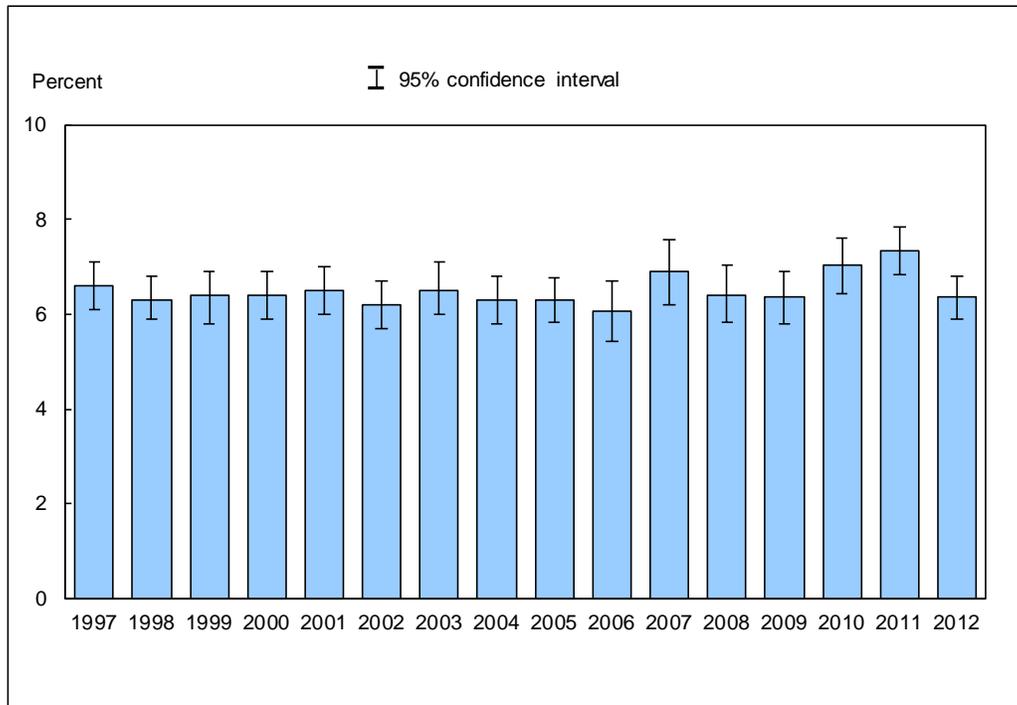
| Race/ethnicity | Percent ¹ | 95% confidence interval |
|--|----------------------|-------------------------|
| Hispanic or Latino | 59.7 | 58.33-61.16 |
| Not Hispanic or Latino, single race, white | 69.7 | 69.05-70.44 |
| Not Hispanic or Latino, single race, black | 56.6 | 55.26-57.86 |

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

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

Figure 12.1. Percentage of adults aged 65 and over who need help with personal care from other persons: United States, 1997–2012

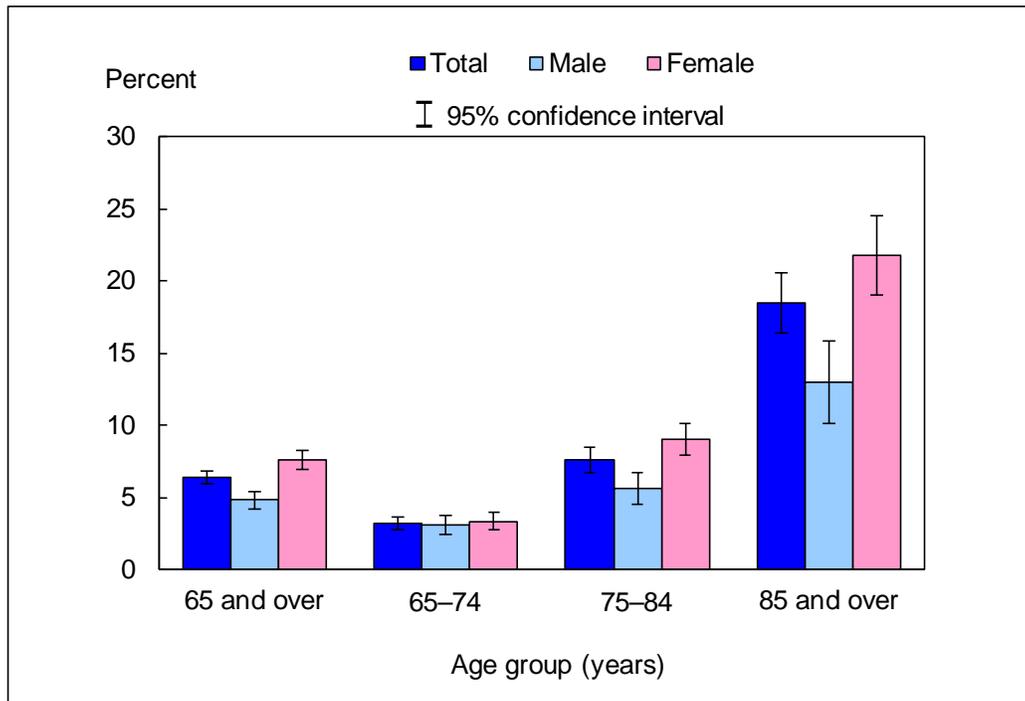


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

- For 2012, 6.4% (95% confidence interval = 5.91%–6.82%) of adults aged 65 and over needed help with personal care from other persons. This estimate was lower than the 2011 estimate of 7.3%.
- The percentage of older adults who needed help with personal care from other persons was lowest in 2006 (6.1%) and highest in 2011 (7.3%).

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

Figure 12.2. Percentage of adults aged 65 and over who need help with personal care from other persons, by age group and sex: United States, 2012

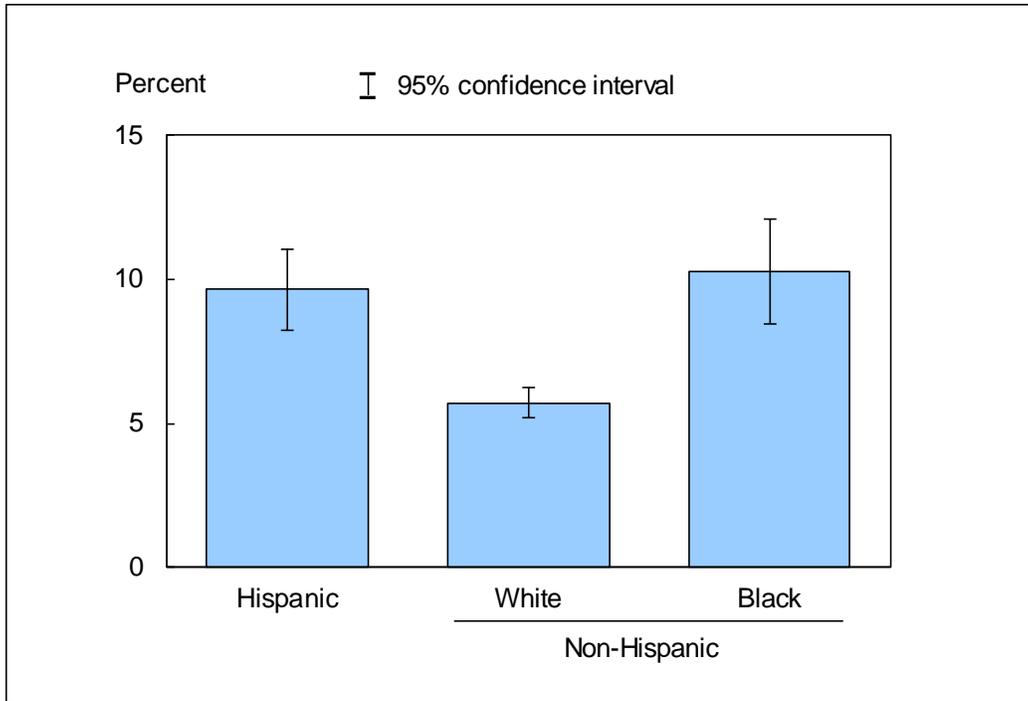


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- For both sexes combined, adults aged 85 and over (18.5%) were more than five times as likely as adults aged 65–74 (3.2%) to need help with personal care from other persons.
- For adults aged 65 and over, and for adults aged 75–84 and 85 and over, women were more likely than men to need help with personal care from other persons.

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

Figure 12.3. Age-sex-adjusted percentage of adults aged 65 and over who need help with personal care from other persons, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

- The age-sex-adjusted percentage of adults aged 65 and over who needed help with personal care from other persons was 9.6% for Hispanic adults, 5.7% for non-Hispanic white adults, and 10.3% for non-Hispanic black adults.
- Non-Hispanic white adults were less likely to need help with personal care from other persons than were Hispanic adults and non-Hispanic black adults.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Personal care needs, or activities of daily living (ADLs), 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 using three age groups: 65–74, 75–84, and 85 and over. • See [Technical Notes](#) for more details.

Data tables for Figures 12.1–12.3:

Data table for Figure 12.1. Percentage of adults aged 65 and over who need help with personal care from other persons: United States, 1997–2012

| 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 |

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, Family Core component.

Data table for Figure 12.2. Percentage of adults aged 65 and over who need help with personal care from other persons, by age group and sex: United States, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 65-74, total | 3.2 | 2.79-3.71 |
| 65-74, male | 3.1 | 2.43-3.77 |
| 65-74, female | 3.4 | 2.77-3.99 |
| 75-84, total | 7.6 | 6.78-8.49 |
| 75-84, male | 5.7 | 4.56-6.75 |
| 75-84, female | 9.0 | 7.91-10.16 |
| 85 and over, total | 18.5 | 16.39-20.55 |
| 85 and over, male | 13.0 | 10.11-15.80 |
| 85 and over, female | 21.8 | 19.03-24.49 |
| 65 and over (crude ¹), total | 6.4 | 5.91-6.82 |
| 65 and over (crude ¹), male | 4.8 | 4.23-5.39 |
| 65 and over (crude ¹), female | 7.6 | 6.96-8.22 |
| 65 and over (age-adjusted ²), total | 6.7 | 6.22-7.13 |
| 65 and over (age-adjusted ²), male | 5.2 | 4.61-5.82 |
| 65 and over (age-adjusted ²), female | 7.6 | 7.03-8.25 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

Data table for Figure 12.3. Age-sex-adjusted percentage of adults aged 65 and over who need help with personal care from other persons, by race/ethnicity: United States, 2012

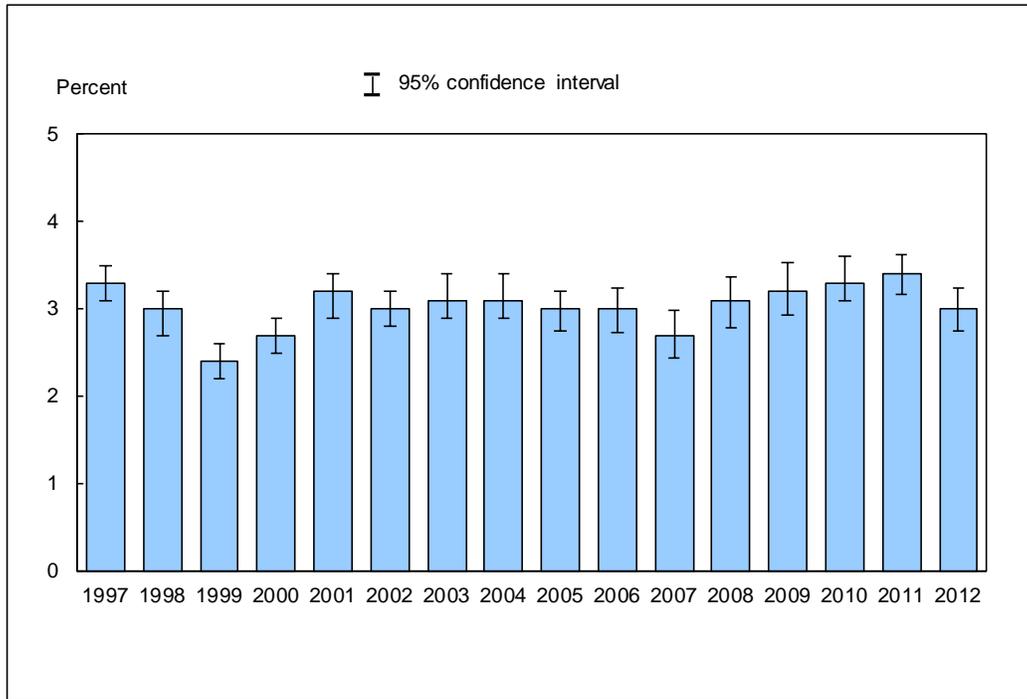
| Race/ethnicity | Percent ¹ | 95% confidence interval |
|--|----------------------|-------------------------|
| Hispanic or Latino | 9.6 | 8.22-11.07 |
| Not Hispanic or Latino, single race, white | 5.7 | 5.20-6.22 |
| Not Hispanic or Latino, single race, black | 10.3 | 8.47-12.08 |

¹Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, Family Core component.

Figure 13.1. Percentage of adults aged 18 and over who experienced serious psychological distress during the past 30 days: United States, 1997–2012

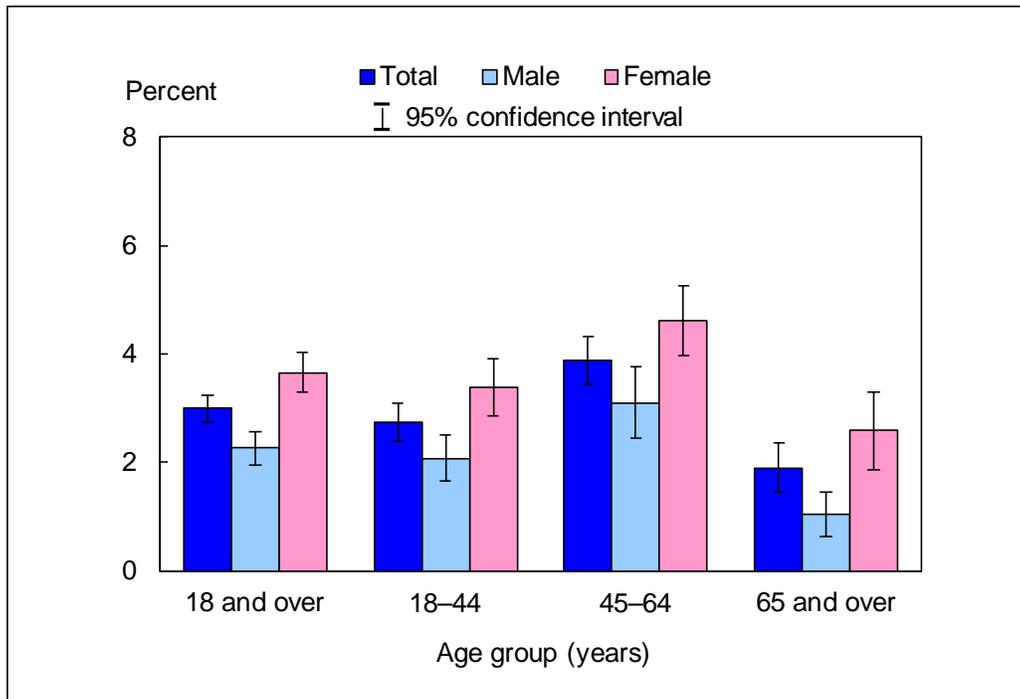


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, 3.0% (95% confidence interval = 2.74%–3.24%) of adults aged 18 and over had experienced serious psychological distress during the past 30 days. This estimate was lower than the 2011 estimate of 3.4%.
- The percentage of adults who had experienced serious psychological distress during the past 30 days was highest in 2011 (3.4%) and lowest in 1999 (2.4%).

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Six psychological distress questions are included in the National Health Interview Survey’s Sample Adult Core component. 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 (9). • See [Technical Notes](#) for more details.

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, 2012

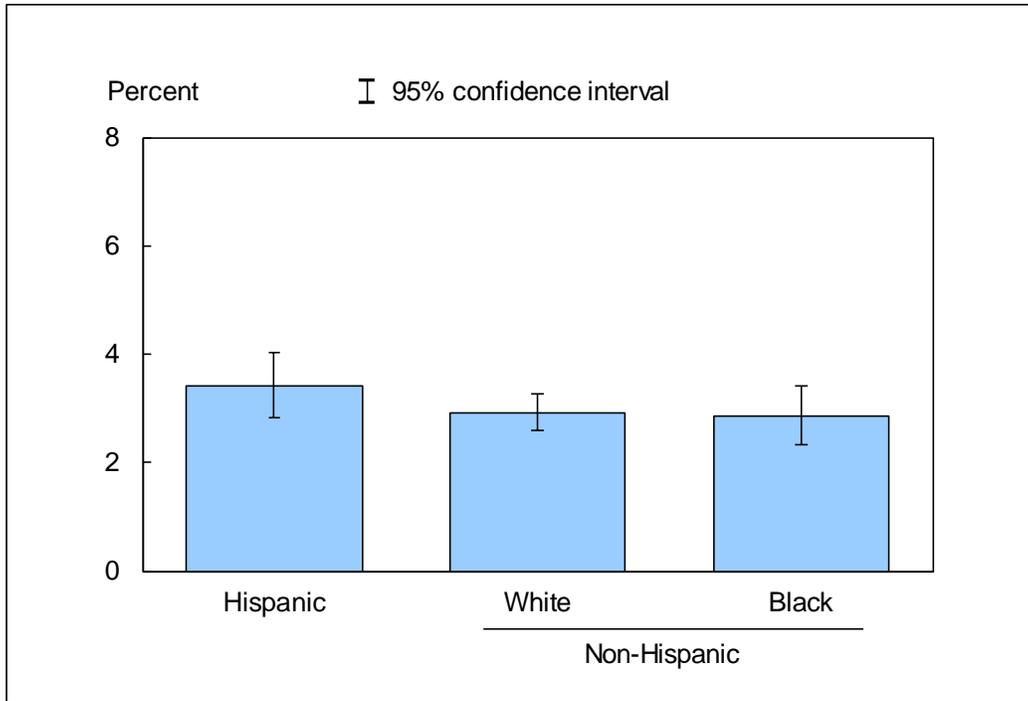


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For both sexes combined, the percentage of persons who had experienced serious psychological distress during the past 30 days was 2.7% for adults aged 18–44, 3.9% for adults aged 45–64, and 1.9% for adults aged 65 and over.
- For all age groups, women were more likely than men to have experienced serious psychological distress during the past 30 days.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Six psychological distress questions are included in the National Health Interview Survey’s Sample Adult Core component. 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 (9). • See [Technical Notes](#) for more details.

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/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted prevalence of serious psychological distress was 3.4% for Hispanic persons, 2.9% for non-Hispanic white persons, and 2.9% for non-Hispanic black persons.
- There was no significant difference in the prevalence of serious psychological distress among the three race/ethnicity groups.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. • Six psychological distress questions are included in the National Health Interview Survey's Sample Adult Core component. 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 (9). • Estimates are age-sex adjusted using the projected 2000 U.S. population as the standard population and using three age groups: 18–44, 45–64, and 65 and over. • See [Technical Notes](#) for more details.



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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-44, total | 2.7 | 2.38-3.10 |
| 18-44, male | 2.1 | 1.65-2.50 |
| 18-44, female | 3.4 | 2.86-3.92 |
| 45-64, total | 3.9 | 3.45-4.31 |
| 45-64, male | 3.1 | 2.44-3.77 |
| 45-64, female | 4.6 | 3.98-5.25 |
| 65 and over, total | 1.9 | 1.46-2.35 |
| 65 and over, male | 1.0 | 0.63-1.44 |
| 65 and over, female | 2.6 | 1.87-3.30 |
| 18 and over (crude ¹), total | 3.0 | 2.74-3.24 |
| 18 and over (crude ¹), male | 2.3 | 1.95-2.58 |
| 18 and over (crude ¹), female | 3.7 | 3.29-4.03 |
| 18 and over (age-adjusted ²), total | 2.9 | 2.69-3.19 |
| 18 and over (age-adjusted ²), male | 2.2 | 1.90-2.51 |
| 18 and over (age-adjusted ²), female | 3.6 | 3.24-3.99 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using three age groups: 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: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

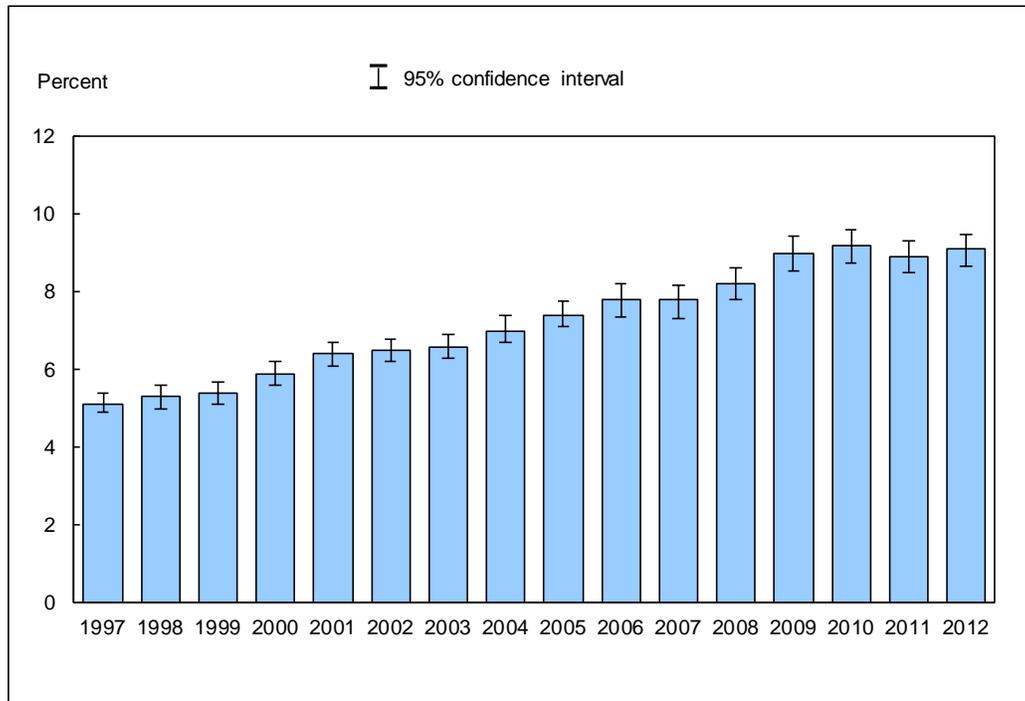
| Race/ethnicity | Percent ¹ | 95% confidence interval |
|--|----------------------|-------------------------|
| Hispanic or Latino | 3.4 | 2.82-4.02 |
| Not Hispanic or Latino, single race, white | 2.9 | 2.60-3.26 |
| Not Hispanic or Latino, single race, black | 2.9 | 2.32-3.42 |

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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 14.1. Prevalence of diagnosed diabetes among adults aged 18 and over: United States, 1997–2012

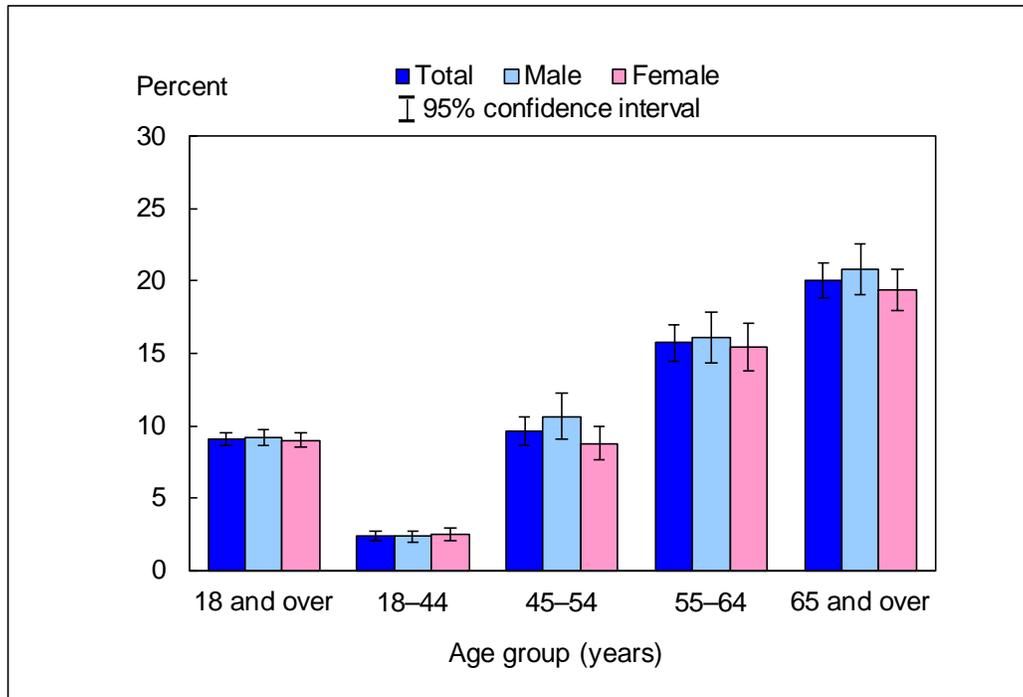


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, Sample Adult Core component.

- For 2012, 9.1% (95% confidence interval = 8.68%–9.46%) of adults aged 18 and over had ever been diagnosed with diabetes, which was not significantly different from the 2011 estimate of 8.9%.
- The prevalence of diagnosed diabetes among adults aged 18 and over increased from 5.1% in 1997 to 9.1% in 2012.

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 excluded persons with unknown diabetes status (about 0.1% of respondents each year). • See [Technical Notes](#) for more details.

Figure 14.2. Prevalence of diagnosed diabetes among adults aged 18 and over, by age group and sex: United States, 2012

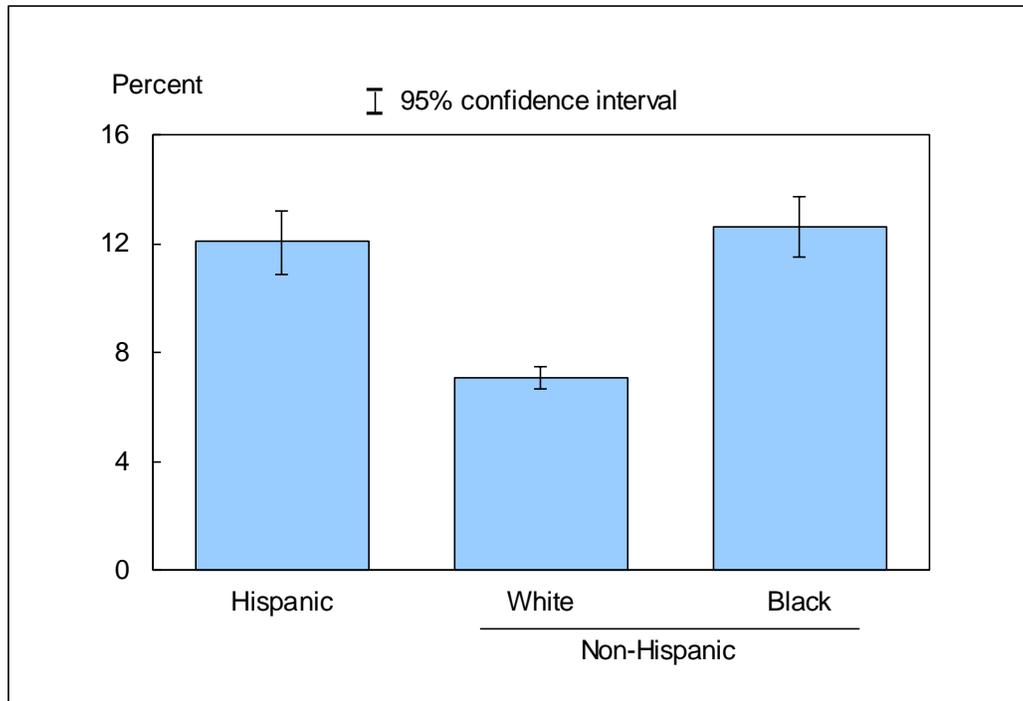


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- For both sexes combined, the prevalence of diagnosed diabetes increased with age. Adults aged 65 and over (20.0%) were more than eight times as likely as those aged 18–44 (2.4%) to have been diagnosed with diabetes.
- For all age groups, there was no significant difference in the prevalence of diagnosed diabetes between men and women.

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 excluded the 0.1% of persons with unknown diabetes status. • See [Technical Notes](#) for more details.

Figure 14.3. Age-sex-adjusted prevalence of diagnosed diabetes among adults aged 18 and over, by race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

- The age-sex-adjusted prevalence of diagnosed diabetes was 12.1% for Hispanic persons, 7.1% for non-Hispanic white persons, and 12.6% for non-Hispanic black persons.
- The prevalence of diagnosed diabetes was lower among non-Hispanic white persons than among Hispanic persons and non-Hispanic black persons.

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 excluded 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 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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age 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.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning with the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|--|---------|-------------------------|
| 18-44, total | 2.4 | 2.08-2.73 |
| 18-44, male | 2.4 | 1.96-2.74 |
| 18-44, female | 2.5 | 2.00-2.91 |
| 45-54, total | 9.7 | 8.68-10.66 |
| 45-54, male | 10.6 | 9.04-12.22 |
| 45-54, female | 8.8 | 7.60-9.92 |
| 55-64, total | 15.8 | 14.48-17.03 |
| 55-64, male | 16.1 | 14.30-17.84 |
| 55-64, female | 15.5 | 13.84-17.09 |
| 65 and over, total | 20.0 | 18.87-21.21 |
| 65 and over, male | 20.8 | 19.05-22.59 |
| 65 and over, female | 19.4 | 18.01-20.84 |
| 18 and over (crude ¹), total | 9.1 | 8.68-9.46 |
| 18 and over (crude ¹), male | 9.2 | 8.58-9.73 |
| 18 and over (crude ¹), female | 9.0 | 8.52-9.47 |
| 18 and over (age-adjusted ²), total | 8.3 | 7.93-8.66 |
| 18 and over (age-adjusted ²), male | 8.6 | 8.07-9.16 |
| 18 and over (age-adjusted ²), female | 8.0 | 7.58-8.45 |

¹Crude estimates are presented in the figure.

²Estimates are age 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

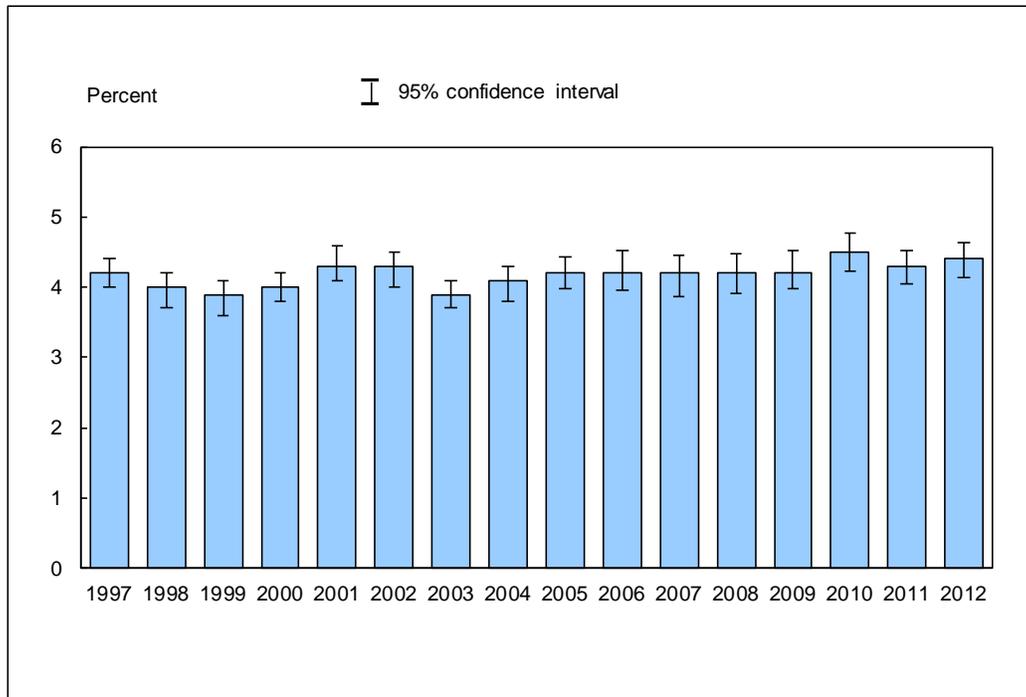
| Race/ethnicity | Percent ¹ | 95% confidence interval |
|--|----------------------|-------------------------|
| Hispanic or Latino | 12.1 | 10.96-13.20 |
| Not Hispanic or Latino, single race, white | 7.1 | 6.65-7.50 |
| Not Hispanic or Latino, single race, black | 12.6 | 11.58-13.71 |

¹Estimates 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.

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

DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, Sample Adult Core component.

Figure 15.1. Percentage of persons of all ages who experienced an asthma episode in the past 12 months: United States, 1997–2012

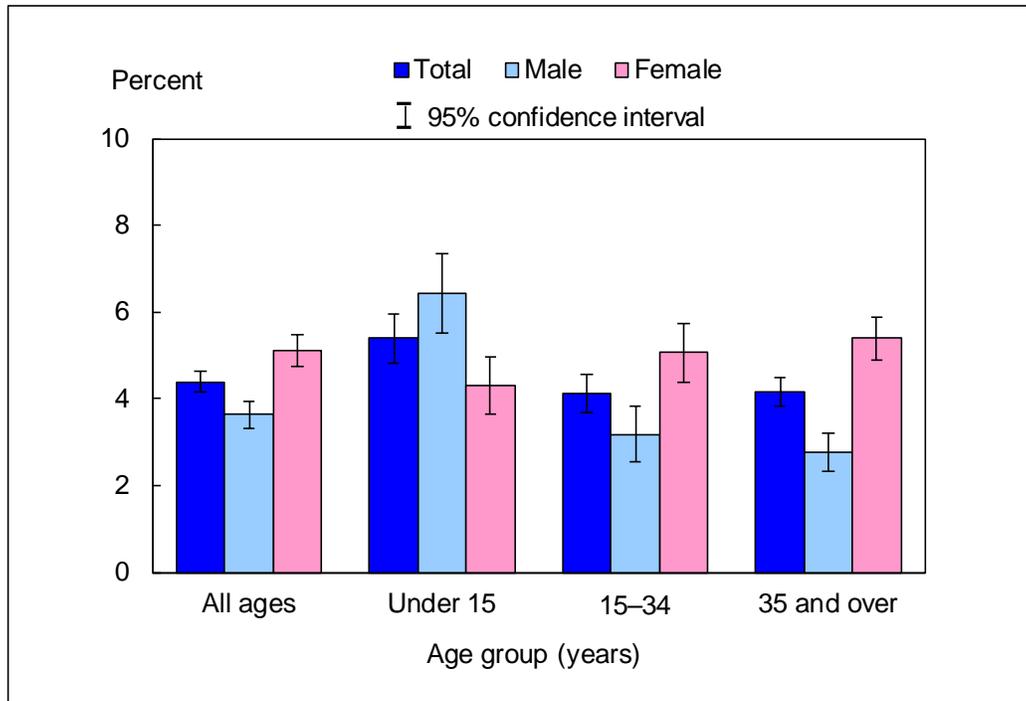


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 1997–2012, combined Sample Adult and Sample Child Core components.

- For 2012, the percentage of persons of all ages who experienced an asthma episode in the past 12 months was 4.4% (95% confidence interval = 4.15%–4.63%), which was not significantly different from the 2011 estimate of 4.3%.
- The percentage of persons of all ages who experienced an asthma episode in the past 12 months increased from 3.9% in 1999 to 4.4% in 2012.

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, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. • The analyses excluded people with unknown asthma episode status (about 0.1% of respondents each year). • See [Technical Notes](#) for more details.

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, 2012

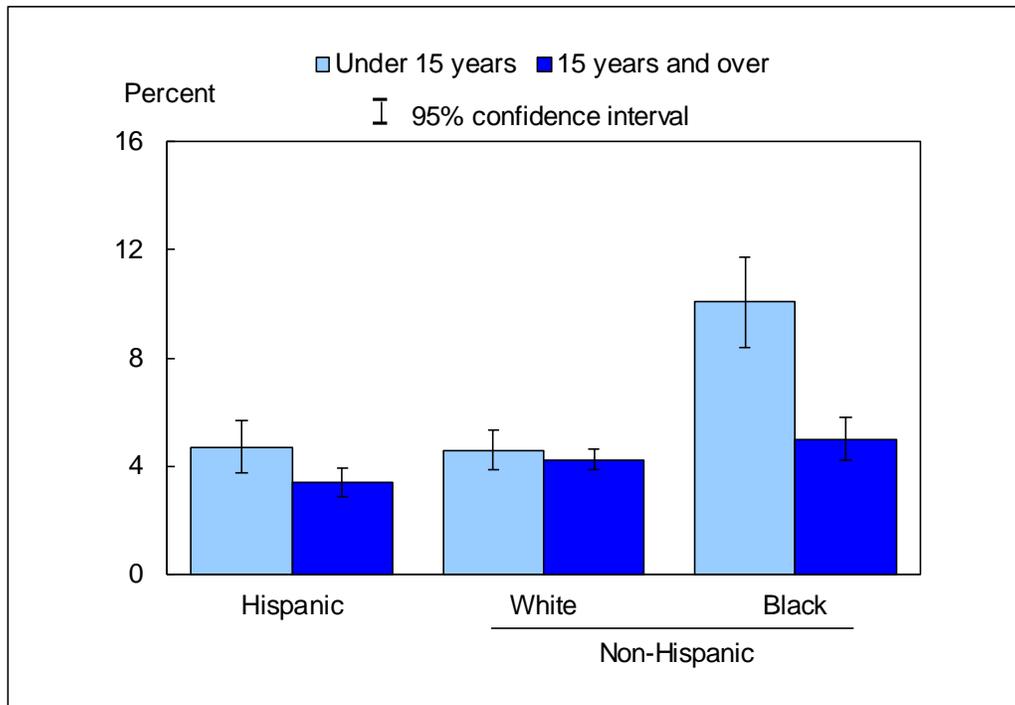


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

- For both sexes combined, the percentage of persons who had an asthma episode in the past 12 months was higher among children under age 15 than among persons aged 15–34 and 35 and over.
- For children under age 15, the percentage who had an asthma episode in the past 12 months was higher among boys (6.4%) than girls (4.3%). For persons of all ages, and for the age groups 15–34 and 35 and over, the percentage was higher among females than among males.

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, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. • The analyses excluded the 0.1% of persons with unknown asthma episode status. • See [Technical Notes](#) for more details.

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/ethnicity: United States, 2012

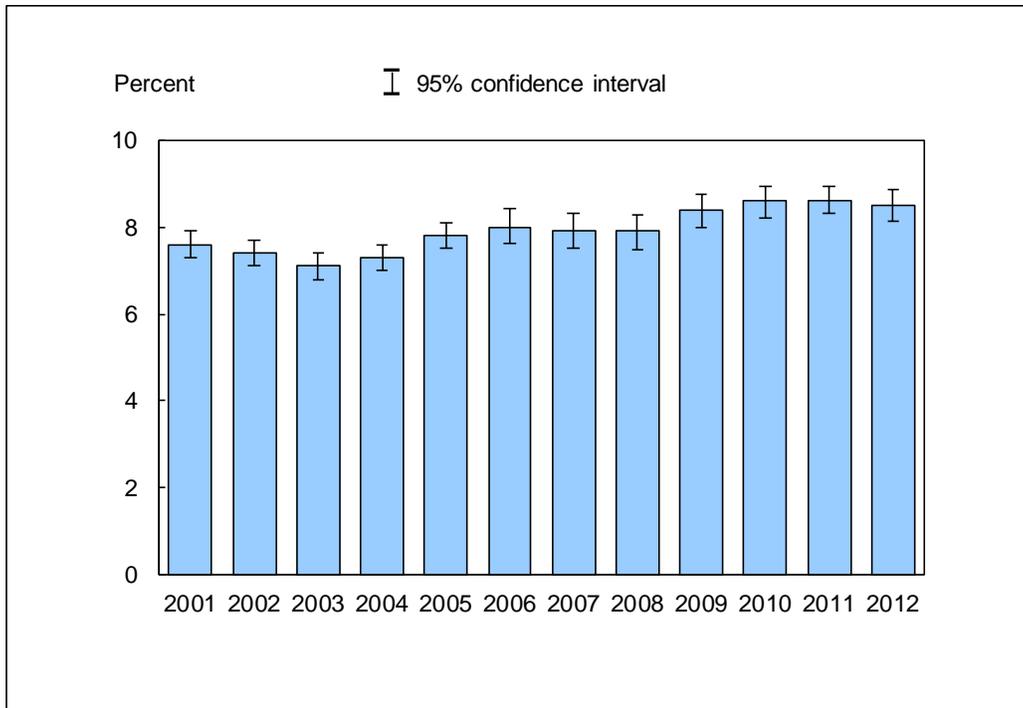


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

- For children under age 15, the sex-adjusted percentages who had an asthma episode in the past 12 months were 4.7% for Hispanic children, 4.6% for non-Hispanic white children, and 10.1% for non-Hispanic black children.
- For persons aged 15 and over, the sex-adjusted percentages who had an asthma episode in the past 12 months were 3.4% for Hispanic persons, 4.2% for non-Hispanic white persons, and 5.0% for non-Hispanic black persons.
- After adjustment for sex, non-Hispanic black children under age 15 had the highest percentage of having an asthma episode in the past 12 months compared with the other race/ethnicity and age groups.

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 years and over. For children under age 18, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. • The analyses excluded the 0.1% 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.

Figure 15.4. Prevalence of current asthma among persons of all ages: United States, 2001–2012

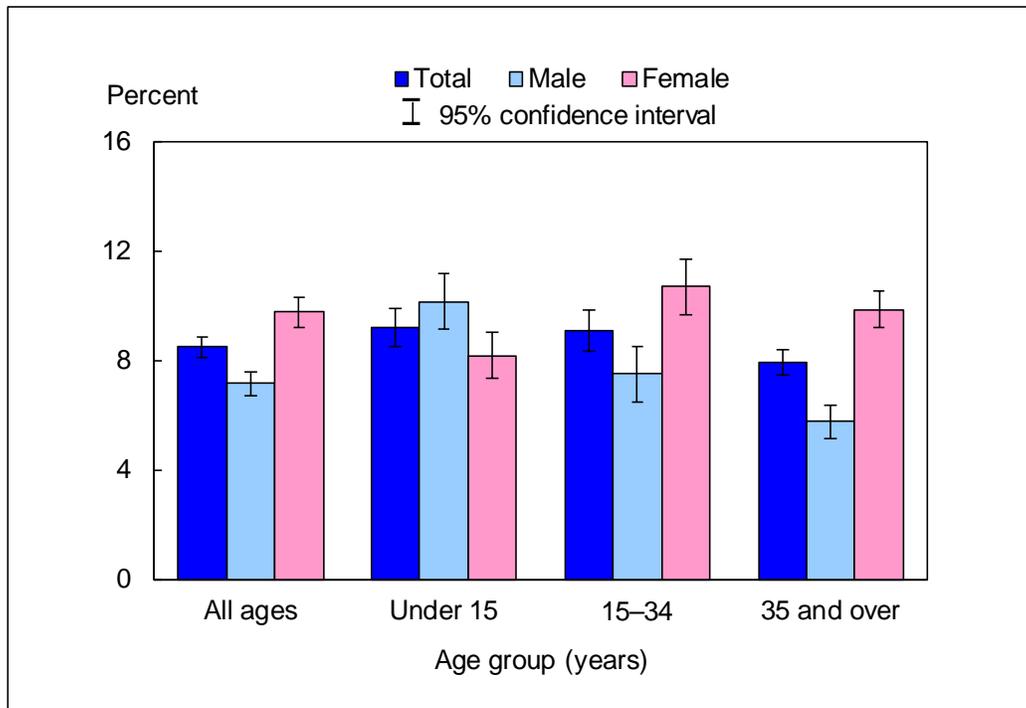


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2001–2012, combined Sample Adult and Sample Child Core components.

- For 2012, 8.5% (95% confidence interval = 8.12%–8.86%) of persons of all ages currently had asthma. This was not significantly different from the 2011 estimate of 8.6%.
- The percentage of current asthma among persons of all ages increased from 7.1% in 2003 to 8.5% in 2012.

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, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. • The analyses excluded people with unknown current asthma status (about 0.2% of respondents each year). • See [Technical Notes](#) for more details.

Figure 15.5. Prevalence of current asthma among persons of all ages, by age group and sex: United States, 2012

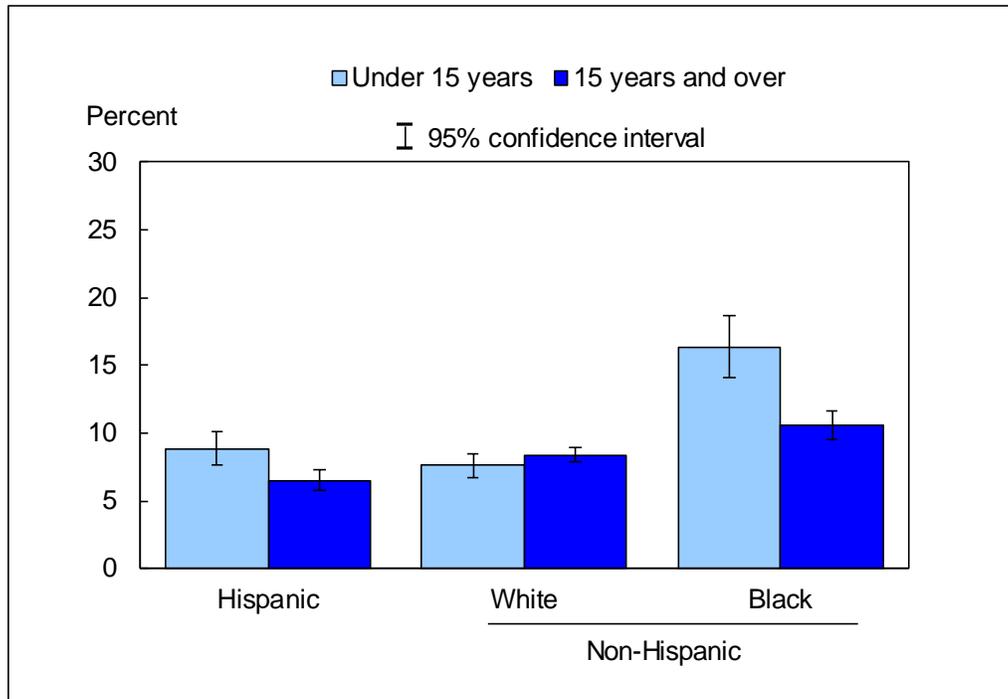


DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

- Persons aged 35 and over were less likely to currently have asthma compared with persons under age 15 and those aged 15–34.
- For persons of all ages, and for persons aged 15–34 and 35 and over, the prevalence of current asthma was higher among females than among males. For persons under age 15, the prevalence of current asthma was higher among males than among females.

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, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. • The analyses excluded the 0.2% of persons with unknown current asthma status. • See [Technical Notes](#) for more details.

Figure 15.6. Sex-adjusted prevalence of current asthma among persons of all ages, by age group and race/ethnicity: United States, 2012



DATA SOURCE: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

- For children under age 15, the sex-adjusted prevalence of current asthma was higher among non-Hispanic black children (16.4%) than among Hispanic children (8.8%) and non-Hispanic white children (7.6%).
- For persons aged 15 and over, the sex-adjusted prevalence of current asthma was lowest among Hispanic persons (6.5%), followed by non-Hispanic white persons (8.4%) and non-Hispanic black persons (10.6%).

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, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. • The analyses excluded the 0.2% of persons with unknown current asthma status. • See [Technical Notes](#) for more details.

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, 1997–2012

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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 the 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: CDC/NCHS, National Health Interview Survey, 1997–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|---|---------|-------------------------|
| Under 15, total | 5.4 | 4.83-5.95 |
| Under 15, male | 6.4 | 5.51-7.35 |
| Under 15, female | 4.3 | 3.65-4.97 |
| 15-34, total | 4.1 | 3.70-4.56 |
| 15-34, male | 3.2 | 2.54-3.82 |
| 15-34, female | 5.1 | 4.40-5.74 |
| 35 and over, total | 4.1 | 3.82-4.48 |
| 35 and over, male | 2.8 | 2.33-3.20 |
| 35 and over, female | 5.4 | 4.91-5.89 |
| All ages (crude ¹), total | 4.4 | 4.15-4.63 |
| All ages (crude ¹), male | 3.6 | 3.33-3.95 |
| All ages (crude ¹), female | 5.1 | 4.73-5.48 |
| All ages (age-adjusted ²), total | 4.4 | 4.17-4.65 |
| All ages (age-adjusted ²), male | 3.7 | 3.36-3.97 |
| All ages (age-adjusted ²), female | 5.1 | 4.70-5.45 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

Data table for Figure 15.3. Sex-adjusted percentage of persons who experienced an asthma episode in the past 12 months, among all persons and among persons with current asthma, by age group and race/ethnicity: United States, 2012

| Age (years) and race/ethnicity | Percent¹ among all persons (95% confidence interval) | Percent¹ among persons with current asthma (95% confidence interval) |
|--|--|--|
| Under 15, Hispanic or Latino | 4.7 (3.75-5.70) | 50.6 (42.61-58.60) |
| Under 15, not Hispanic or Latino, single race, white | 4.6 (3.89-5.36) | 60.5 (54.37-66.70) |
| Under 15, not Hispanic or Latino, single race, black | 10.1 (8.37-11.73) | 61.1 (54.90-67.28) |
| 15 and over, Hispanic or Latino | 3.4 (2.89-3.95) | 52.1 (46.28-57.99) |
| 15 and over, not Hispanic or Latino, single race, white | 4.2 (3.86-4.61) | 49.5 (46.13-52.93) |
| 15 and over, not Hispanic or Latino, single race, black | 5.0 (4.23-5.82) | 46.8 (41.61-52.09) |

¹Estimates for all persons are presented in the figure. 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: CDC/NCHS, National Health Interview Survey, 2012, 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, 2001–2012**

| 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) |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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 the 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: CDC/NCHS, National Health Interview Survey, 2001–2012, 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, 2012

| Age (years) and sex | Percent | 95% confidence interval |
|---|---------|-------------------------|
| Under 15, total | 9.2 | 8.49-9.88 |
| Under 15, male | 10.1 | 9.12-11.16 |
| Under 15, female | 8.2 | 7.33-9.05 |
| 15-34, total | 9.1 | 8.36-9.86 |
| 15-34, male | 7.5 | 6.49-8.53 |
| 15-34, female | 10.7 | 9.69-11.72 |
| 35 and over, total | 7.9 | 7.45-8.38 |
| 35 and over, male | 5.8 | 5.16-6.35 |
| 35 and over, female | 9.9 | 9.19-10.54 |
| All ages (crude ¹), total | 8.5 | 8.12-8.86 |
| All ages (crude ¹), male | 7.2 | 6.72-7.59 |
| All ages (crude ¹), female | 9.8 | 9.22-10.32 |
| All ages (age-adjusted ²), total | 8.5 | 8.15-8.88 |
| All ages (age-adjusted ²), male | 7.2 | 6.75-7.61 |
| All ages (age-adjusted ²), female | 9.7 | 9.19-10.28 |

¹Crude estimates are presented in the figure.

²Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using 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: CDC/NCHS, National Health Interview Survey, 2012, 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/ethnicity: United States, 2012

| Age (years) and race/ethnicity | Percent ¹ | 95% confidence interval |
|---|----------------------|-------------------------|
| Under 15, Hispanic or Latino | 8.8 | 7.59-10.06 |
| Under 15, not Hispanic or Latino, single race, white | 7.6 | 6.73-8.51 |
| Under 15, not Hispanic or Latino, single race, black | 16.4 | 14.10-18.63 |
| 15 and over, Hispanic or Latino | 6.5 | 5.72-7.28 |
| 15 and over, not Hispanic or Latino, single race, white | 8.4 | 7.87-8.93 |
| 15 and over, not Hispanic or Latino, single race, black | 10.6 | 9.48-11.62 |

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: CDC/NCHS, National Health Interview Survey, 2012, combined Sample Adult and Sample Child Core components.

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Appendix. 2012 National Health Interview Survey Questions Used to Define Selected Health Measures

Alphanumeric codes refer directly to the question on the 2012 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/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

Obtaining 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 shot? A flu shot is usually given in the fall and protects against influenza for the flu season.

AND

AAU.315 DURING THE PAST 12 MONTHS, have you had a flu vaccine sprayed in your nose by a doctor or other health professional? A health professional may have let you spray it. This vaccine is usually given in the fall and protects against influenza for the flu season.

AND

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 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 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

AAU.700 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

ACN.471 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
- (7) Refused
- (9) Don't know

Asthma episodes and current 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 2012: (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 2012 NHIS were based on 107,921 persons in the Family Core (106,852 persons for health insurance estimates), 34,747 adults in the Sample Adult Core, and 13,343 children in the Sample Child Core. Visit the NHIS website at <http://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/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 (10). 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: http://www.cdc.gov/nchs/data/series/sr_02/sr02_130.pdf.

Implementation of a new sample design. A new sample design was implemented with the 2006 NHIS. In addition to the continued oversampling of black and Hispanic persons carried out in the 1995–2005 NHIS sample design, persons of Asian descent are oversampled in the new design. Also, for the Sample Adult Core, a new level of oversampling began in 2006 for persons aged 65 and over who are black, Hispanic, or Asian. These older adults are now more likely than other adults in the family to be selected as the sample adult. Some of the differences between estimates for 2006 and later and estimates for earlier years may be attributable to the new sample design. However, the impact of the new design on estimates presented in this report is expected to be minimal.

Estimation procedures. NCHS creates weights for each calendar quarter of the NHIS sample. The NHIS data weighting procedure is described in more detail at:

http://www.cdc.gov/nchs/data/series/sr_02/sr02_130.pdf. Because the estimates for 2012 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 2012 data files.

Estimates from the 1997–2011 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:

<http://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. All estimates shown meet the NCHS standard of having less than or equal to 30% relative standard error. 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. 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.

Significance testing. Trends were assessed by using Joinpoint regression (11), 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.

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. 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/ethnicity groups. For the prevalence of obesity, only age-adjusted sex-specific percentages are presented because the race/ethnicity patterns in obesity prevalence differ by sex. Similarly, only sex-adjusted age-specific prevalences are presented for the asthma measures because the race/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 (12) 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/ethnicity categories. The race/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* (13) 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/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* (14) 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/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, 2012 (1)*.

The data on health insurance status were edited using an automated system based on logic checks and keyword searches. 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 points 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 additional 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” (15).

Influenza vaccination. 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.

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. The prevalence of influenza vaccination during the past 12 months may differ from season-specific coverage (estimates available from:

<http://www.cdc.gov/flu/professionals/vaccination/vaccinecoverage.htm>).

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. If the respondent had donated blood, 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. If the respondent had not donated blood, they 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 attributable to this change in placement of the HIV testing question 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 (16) and a separate health insurance report (1) are released about 6 months after NHIS data collection has been completed for each quarter—in about March, June, September, and December. A third report on wireless substitution (2) is released in about June and December. 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: <http://www.cdc.gov/subscribe.html>.

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

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