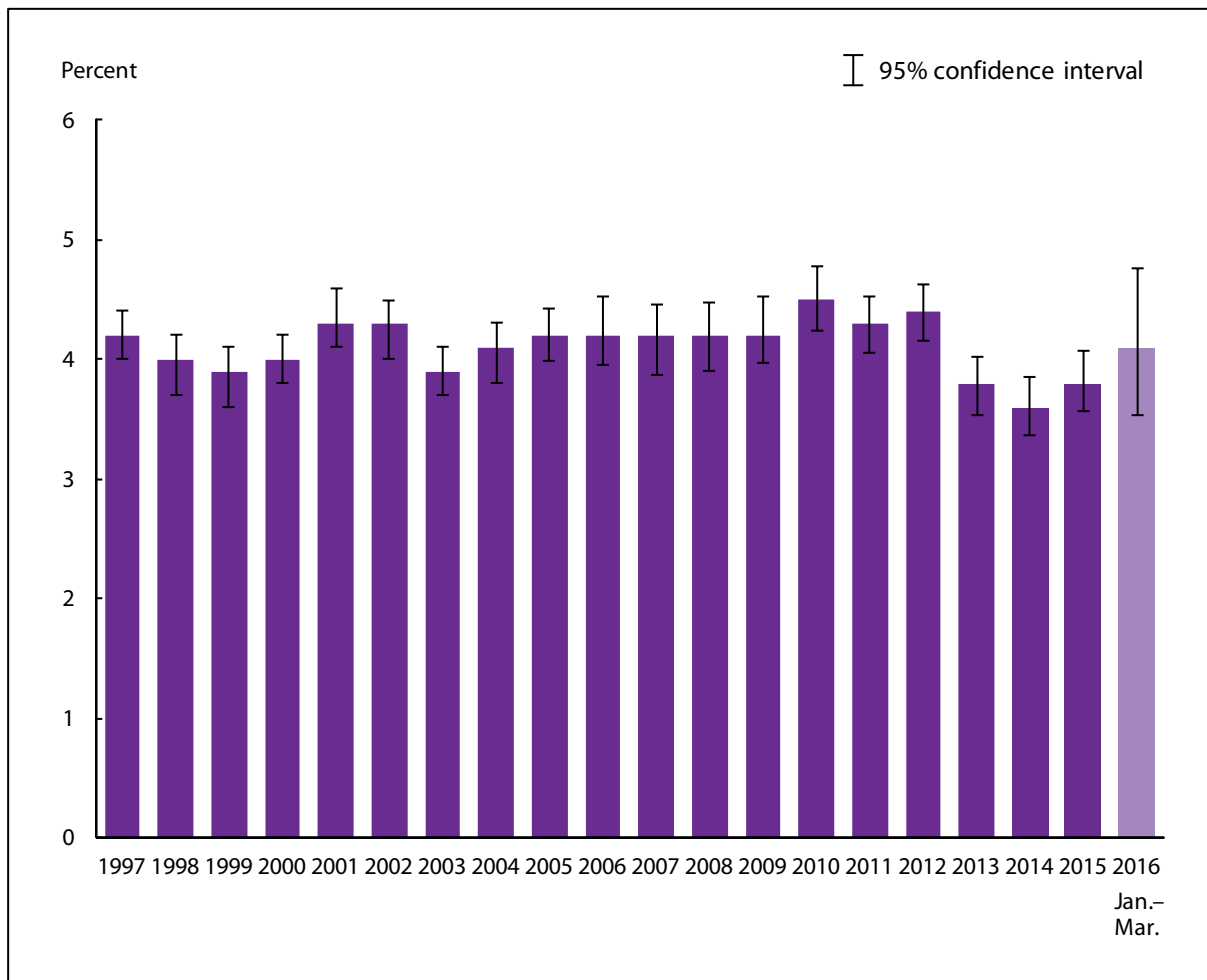


## Asthma

**Figure 15.1. Percentage of persons of all ages who experienced an asthma episode in the past 12 months: United States, 1997–March 2016**

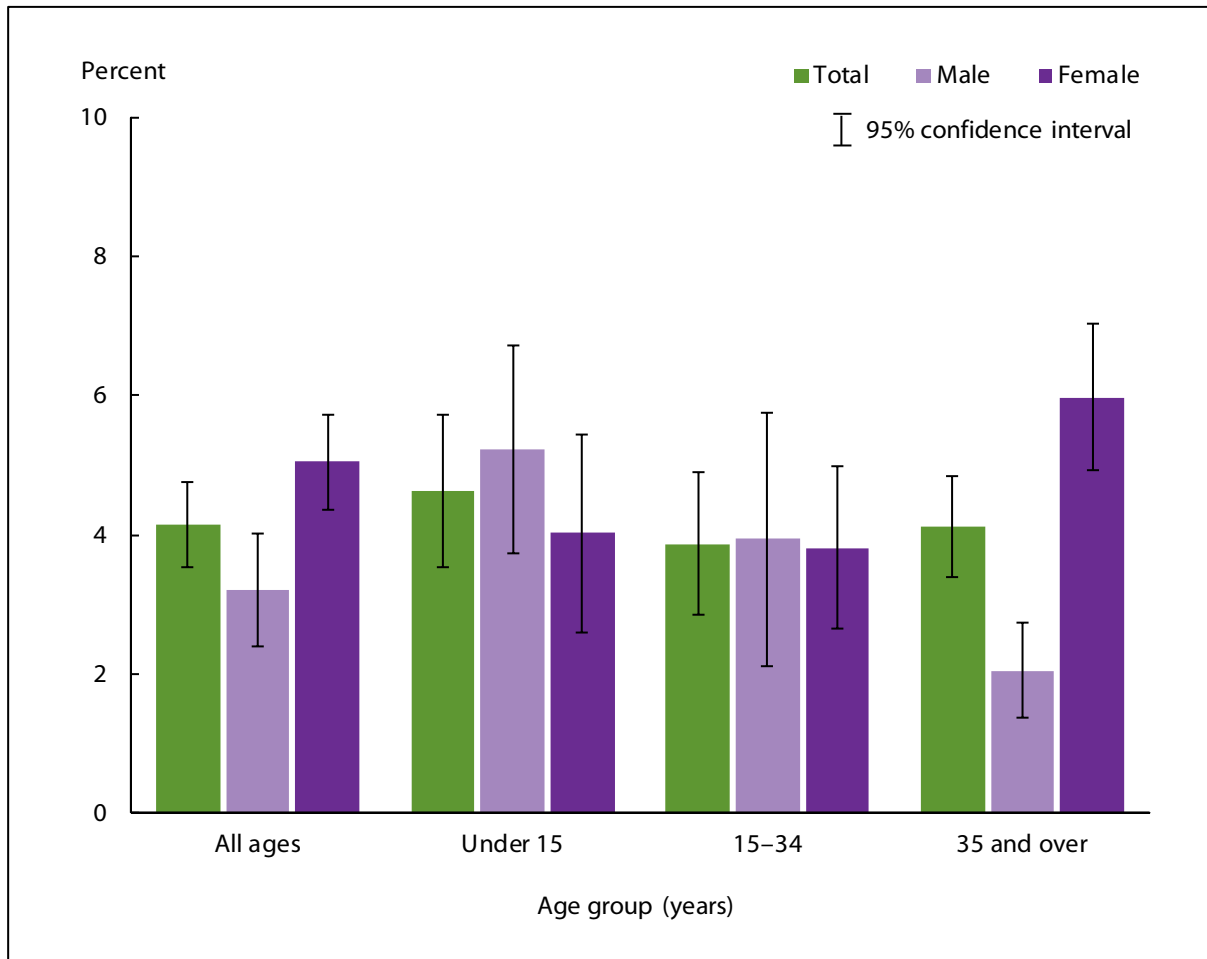


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an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

DATA SOURCE: NCHS, National Health Interview Survey, 1997–March 2016, combined Sample Adult and Sample Child Core components.

- For January–March 2016, the percentage of persons of all ages who experienced an asthma episode in the past 12 months was 4.1% (95% confidence interval = 3.53%–4.76%), which was not significantly different from the 2015 estimate of 3.8%.
- From 1997–March 2016, no clear trend was observed in the percentage of persons of all ages who experienced an asthma episode in the past 12 months.

**Figure 15.2. Percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and sex: United States, January–March 2016**

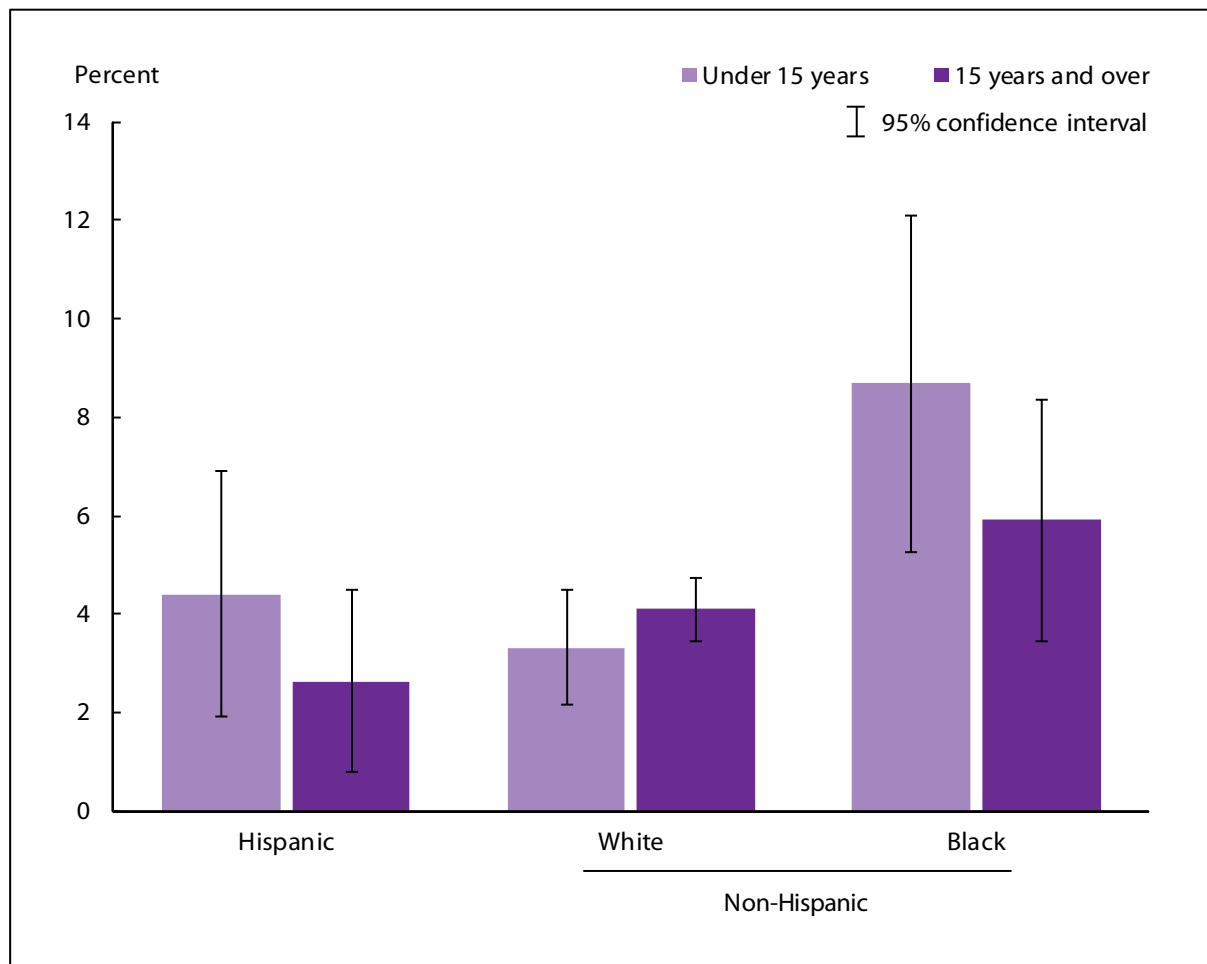


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.

- For males, the percentage of persons by age group who had an asthma episode in the past 12 months was higher among children under age 15 years (5.2%) than among persons aged 35 and over (2.0%). For females, the percentage of persons who had an asthma episode in the past 12 months was lower among children under age 15 years (4.0%) and those aged 15–34 (3.8%) than among persons aged 35 and over (6.0%).
- For persons of all ages and those 35 and over, the percentage of persons who had an asthma episode in the past 12 months was higher among females than among males.

**Figure 15.3. Sex-adjusted percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and race and ethnicity: United States, January–March 2016**

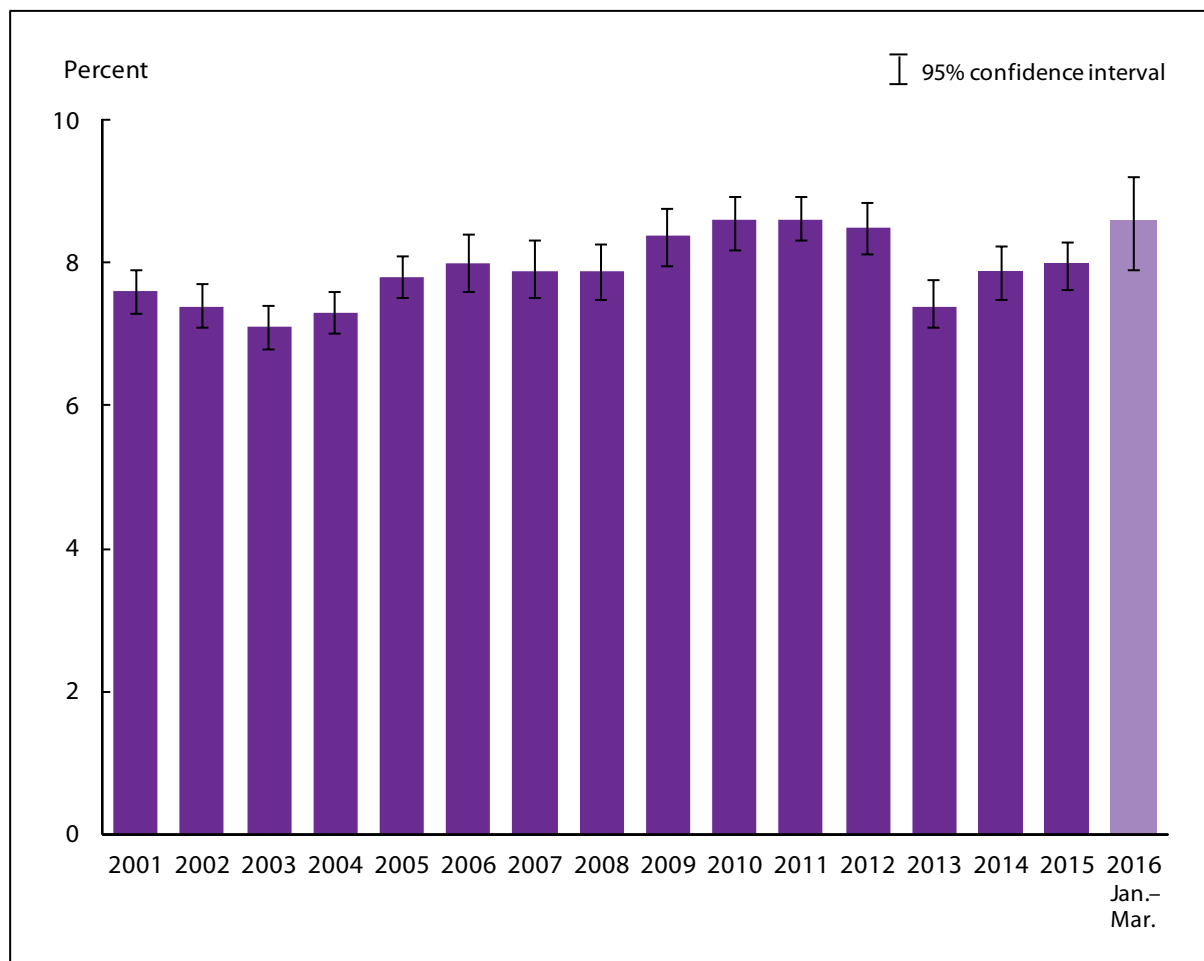


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable about the child's health. The analyses exclude the less than 0.1% 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.

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.

- For children under age 15 years, the sex-adjusted percentage by race and ethnicity who had an asthma episode in the past 12 months was 4.4% for Hispanic children, 3.3% for non-Hispanic white children, and 8.7% for non-Hispanic black children.
- For persons aged 15 and over, the sex-adjusted percentage who had an asthma episode in the past 12 months was 2.6% for Hispanic persons, 4.1% for non-Hispanic white persons, and 5.9% for non-Hispanic black persons.
- After adjustment for sex, Hispanic and non-Hispanic white children under age 15 were less likely to have had an asthma episode in the past 12 months compared with non-Hispanic black children under age 15.
- After adjustment for sex, Hispanic and non-Hispanic white persons aged 15 and over were less likely to have had an asthma episode in the past 12 months compared with non-Hispanic black persons aged 15 and over.
- There was no significant difference in having had an asthma episode in the past 12 months between non-Hispanic white and Hispanic persons aged 15 and over.

**Figure 15.4. Prevalence of current asthma among persons of all ages: United States, 2001–March 2016**

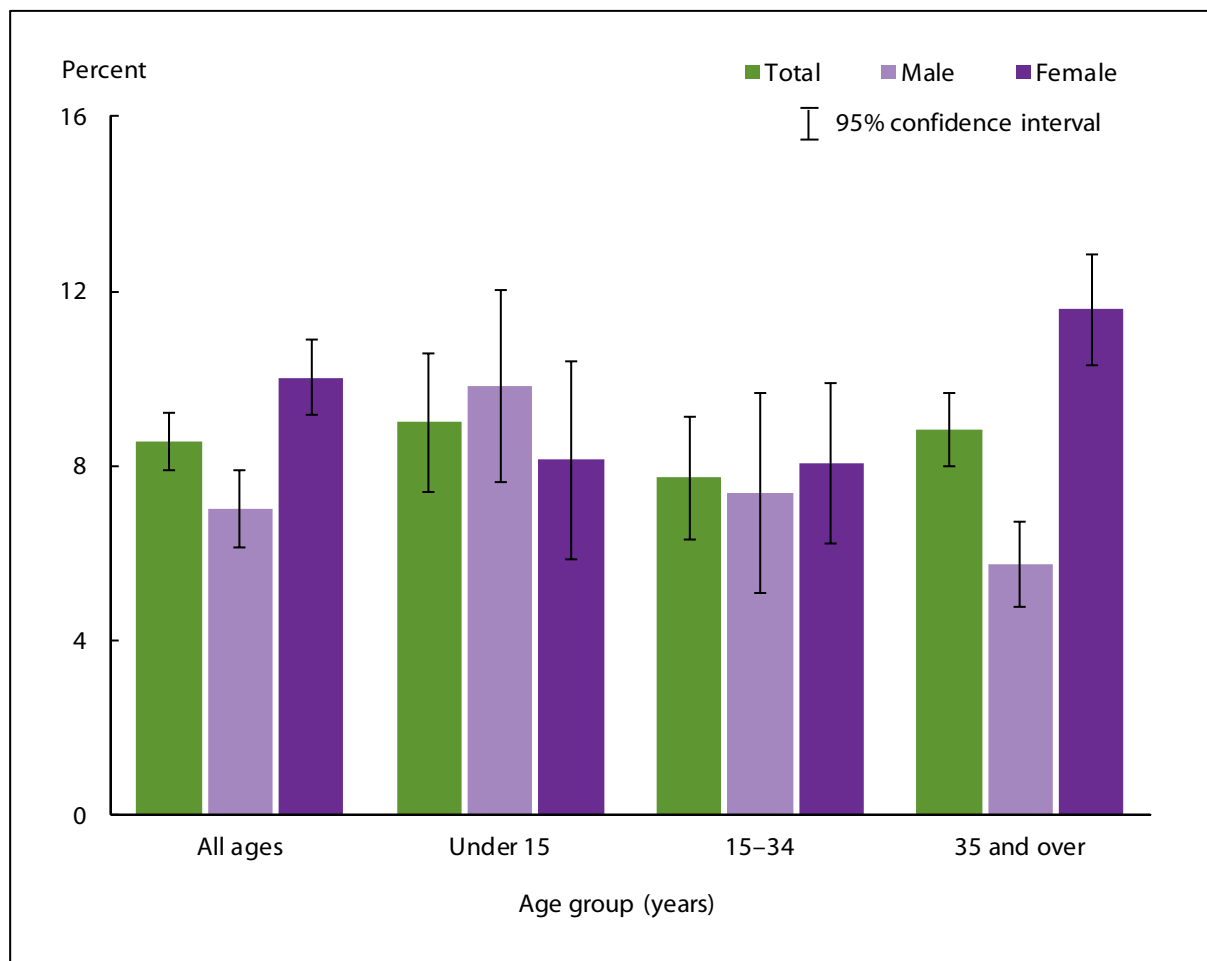


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning in 2001, respondents were asked about current asthma in addition to the question regarding asthma episodes. Information on current asthma is self-reported by adults aged 18 and over. For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

DATA SOURCE: NCHS, National Health Interview Survey, 2001–March 2016, combined Sample Adult and Sample Child Core components.

- For January–March 2016, 8.6% (95% confidence interval = 7.91%–9.22%) of persons of all ages currently had asthma. This was higher than, but not significantly different from the 2015 estimate of 8.0%.
- The prevalence of current asthma decreased, from 7.6% in 2001 to 7.1% in 2003, and then increased to 8.6% in 2010. There was no significant difference in the prevalence of current asthma from 2010 to 2012.
- The prevalence of current asthma decreased, from 8.5% in 2012 to 7.4% in 2013, and then increased to 8.6% in January–March 2016.

**Figure 15.5. Prevalence of current asthma among persons of all ages, by age group and sex: United States, January–March 2016**

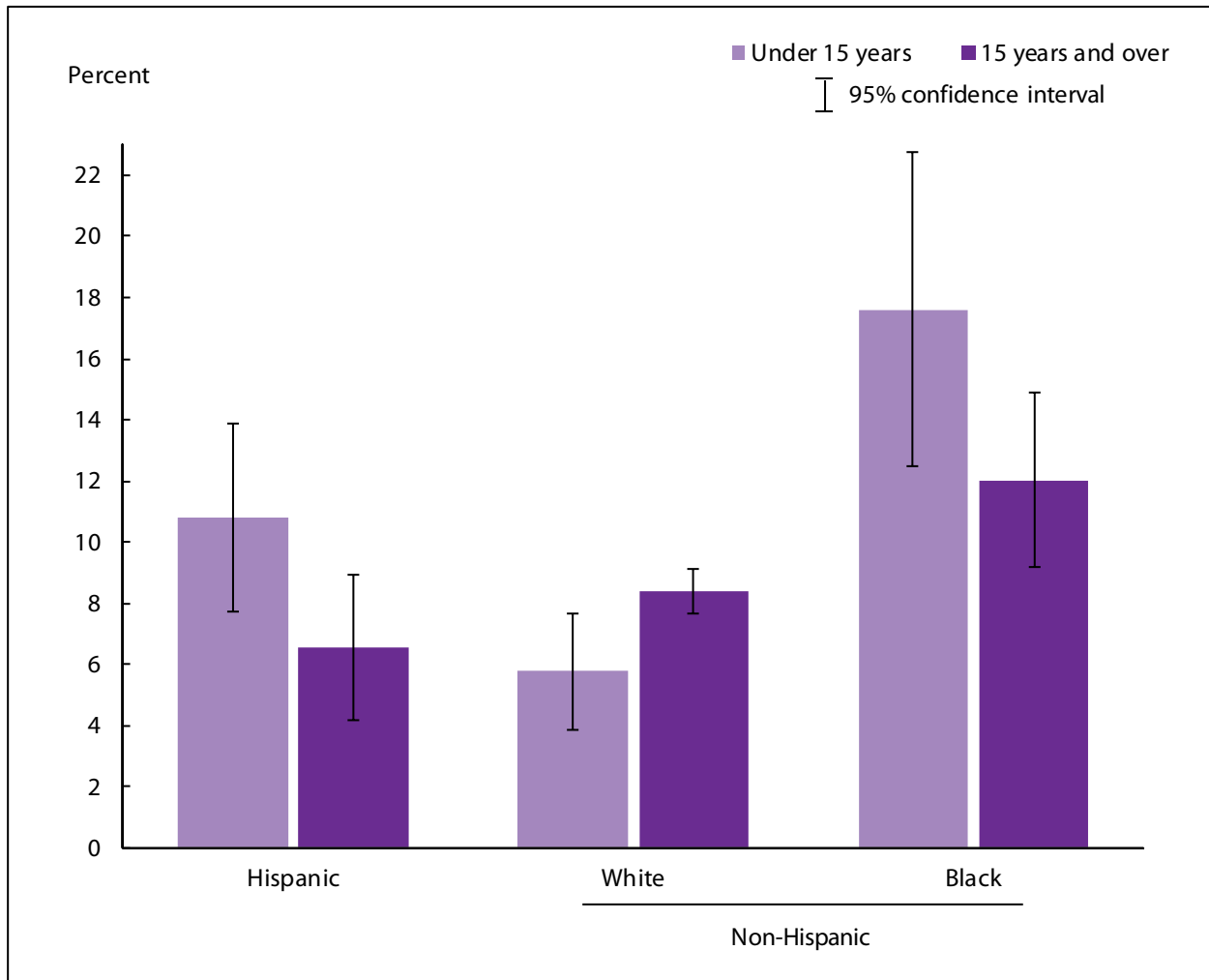


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on current asthma is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.

- For males, those under age 15 years (9.8%) were more likely to currently have asthma compared with males aged 35 and over (5.8%). For females, those under age 15 years (8.1%) and those aged 15–34 (8.1%) were less likely to currently have asthma compared with females aged 35 and over (11.6%).
- For persons of all ages and for persons aged 35 and over, the prevalence of current asthma was higher among females than males.

**Figure 15.6. Sex-adjusted prevalence of current asthma among persons of all ages, by age group and race and ethnicity: United States, January–March 2016**



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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.

- For children under age 15 years, the sex-adjusted prevalence of current asthma was higher among non-Hispanic black children (17.6%) compared with Hispanic children (10.8%) and non-Hispanic white children (5.8%). Non-Hispanic white children were less likely than Hispanic children to currently have asthma.
- For persons aged 15 and over, the sex-adjusted prevalence of current asthma was higher among non-Hispanic black persons (12.0%) compared with non-Hispanic white persons (8.4%) and Hispanic persons (6.6%).

## 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–March 2016**

Year	Crude <sup>1</sup> percent (95% confidence interval)	Age-adjusted <sup>2</sup> percent (95% confidence interval)
1997	4.2 (4.0–4.4)	4.2 (3.9–4.4)
1998	4.0 (3.7–4.2)	3.9 (3.7–4.2)
1999	3.9 (3.6–4.1)	3.9 (3.6–4.1)
2000	4.0 (3.8–4.2)	4.0 (3.8–4.2)
2001	4.3 (4.1–4.6)	4.3 (4.1–4.5)
2002	4.3 (4.0–4.5)	4.3 (4.0–4.5)
2003	3.9 (3.7–4.1)	3.9 (3.7–4.1)
2004	4.1 (3.8–4.3)	4.1 (3.8–4.3)
2005	4.2 (3.99–4.43)	4.2 (4.00–4.44)
2006	4.2 (3.96–4.52)	4.3 (3.98–4.54)
2007	4.2 (3.87–4.46)	4.2 (3.88–4.47)
2008	4.2 (3.91–4.48)	4.2 (3.93–4.50)
2009	4.2 (3.97–4.52)	4.3 (3.99–4.54)
2010	4.5 (4.24–4.77)	4.5 (4.25–4.78)
2011	4.3 (4.06–4.52)	4.3 (4.08–4.54)
2012	4.4 (4.15–4.63)	4.4 (4.17–4.65)
2013	3.8 (3.53–4.02)	3.8 (3.55–4.04)
2014	3.6 (3.36–3.85)	3.6 (3.37–3.88)
2015	3.8 (3.57–4.07)	3.8 (3.58–4.08)
January–March 2016	4.1 (3.53–4.76)	4.2 (3.54–4.77)

<sup>1</sup>Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 1997–March 2016, combined Sample Adult and Sample Child Core components.

**Data table for Figure 15.2. Percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and sex: United States, January–March 2016**

Age (years) and sex	Percent	95% confidence interval
Under 15, total	4.6	3.54–5.73
Under 15, male	5.2	3.74–6.71
Under 15, female	4.0	2.60–5.45
15–34, total	3.9	2.84–4.89
15–34, male	3.9	2.11–5.75
15–34, female	3.8	2.64–4.97
35 and over, total	4.1	3.38–4.84
35 and over, male	2.0	1.36–2.73
35 and over, female	6.0	4.92–7.03
All ages (crude <sup>1</sup> ), total	4.1	3.53–4.76
All ages (crude <sup>1</sup> ), male	3.2	2.40–4.01
All ages (crude <sup>1</sup> ), female	5.0	4.36–5.73
All ages (age-adjusted <sup>2</sup> ), total	4.2	3.54–4.77
All ages (age-adjusted <sup>2</sup> ), male	3.2	2.44–4.05
All ages (age-adjusted <sup>2</sup> ), female	5.0	4.30–5.62

<sup>1</sup>Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.

**Data table for Figure 15.3. Sex-adjusted percentage of persons of all ages who experienced an asthma episode in the past 12 months, by age group and race and ethnicity: United States, January–March 2016**

Age (years) and race and ethnicity	All persons	All persons with current asthma
	Sex-adjusted percent <sup>1</sup>	(95% confidence interval)
Under 15, Hispanic or Latino	4.4 (1.92–6.92)	38.3 (19.20–57.39)
Under 15, not Hispanic or Latino, single race, white	3.3 (2.16–4.50)	58.1 (41.28–74.82)
Under 15, not Hispanic or Latino, single race, black	8.7 (5.26–12.17)	49.5 (32.99–65.91)
15 and over, Hispanic or Latino	2.6 (0.78–4.49)	40.7 (22.43–58.96)
15 and over, not Hispanic or Latino, single race, white	4.1 (3.45–4.74)	47.1 (41.30–52.81)
15 and over, not Hispanic or Latino, single race, black	5.9 (3.44–8.36)	52.4 (39.04–65.80)

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

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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, 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–March 2016**

Year	Crude <sup>1</sup> percent (95% confidence interval)	Age-adjusted <sup>2</sup> percent (95% confidence interval)
2001	7.6 (7.3–7.9)	7.6 (7.3–7.9)
2002	7.4 (7.1–7.7)	7.4 (7.1–7.7)
2003	7.1 (6.8–7.4)	7.1 (6.8–7.4)
2004	7.3 (7.0–7.6)	7.3 (7.1–7.7)
2005	7.8 (7.50–8.10)	7.8 (7.51–8.11)
2006	8.0 (7.61–8.41)	8.0 (7.62–8.43)
2007	7.9 (7.50–8.31)	7.9 (7.51–8.33)
2008	7.9 (7.48–8.27)	7.9 (7.51–8.30)
2009	8.4 (7.97–8.76)	8.4 (7.99–8.78)
2010	8.6 (8.19–8.94)	8.6 (8.20–8.95)
2011	8.6 (8.31–8.93)	8.6 (8.32–8.95)
2012	8.5 (8.12–8.86)	8.5 (8.15–8.88)
2013	7.4 (7.09–7.76)	7.4 (7.11–7.77)
2014	7.9 (7.49–8.24)	7.9 (7.52–8.27)
2015	8.0 (7.62–8.30)	8.0 (7.63–8.32)
January–March 2016	8.6 (7.91–9.22)	8.6 (7.91–9.21)

<sup>1</sup>Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 2001–March 2016, combined Sample Adult and Sample Child Core components.

**Data table for Figure 15.5. Prevalence of current asthma among persons of all ages, by age group and sex: United States, January–March 2016**

Age (years) and sex	Percent	95% confidence interval
Under 15, total	9.0	7.41–10.60
Under 15, male	9.8	7.62–12.04
Under 15, female	8.1	5.88–10.40
15–34, total	7.7	6.33–9.12
15–34, male	7.4	5.11–9.67
15–34, female	8.1	6.25–9.90
35 and over, total	8.8	7.99–9.66
35 and over, male	5.8	4.77–6.75
35 and over, female	11.6	10.33–12.86
All ages (crude <sup>1</sup> ), total	8.6	7.91–9.22
All ages (crude <sup>1</sup> ), male	7.0	6.15–7.90
All ages (crude <sup>1</sup> ), female	10.0	9.19–10.88
All ages (age-adjusted <sup>2</sup> ), total	8.6	7.91–9.21
All ages (age-adjusted <sup>2</sup> ), male	7.1	6.21–7.95
All ages (age-adjusted <sup>2</sup> ), female	9.9	9.06–10.71

<sup>1</sup>Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.

**Data table for Figure 15.6. Sex-adjusted prevalence of current asthma among persons of all ages, by age group and race and ethnicity: United States, January–March 2016**

Age (years) and race and ethnicity	Percent <sup>1</sup>	95% confidence interval
Under 15, Hispanic or Latino	10.8	7.75–13.85
Under 15, not Hispanic or Latino, single race, white	5.8	3.88–7.68
Under 15, not Hispanic or Latino, single race, black	17.6	12.49–22.74
15 and over, Hispanic or Latino	6.6	4.18–8.95
15 and over, not Hispanic or Latino, single race, white	8.4	7.67–9.10
15 and over, not Hispanic or Latino, single race, black	12.0	9.17–14.90

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

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

DATA SOURCE: NCHS, National Health Interview Survey, January–March 2016, combined Sample Adult and Sample Child Core components.