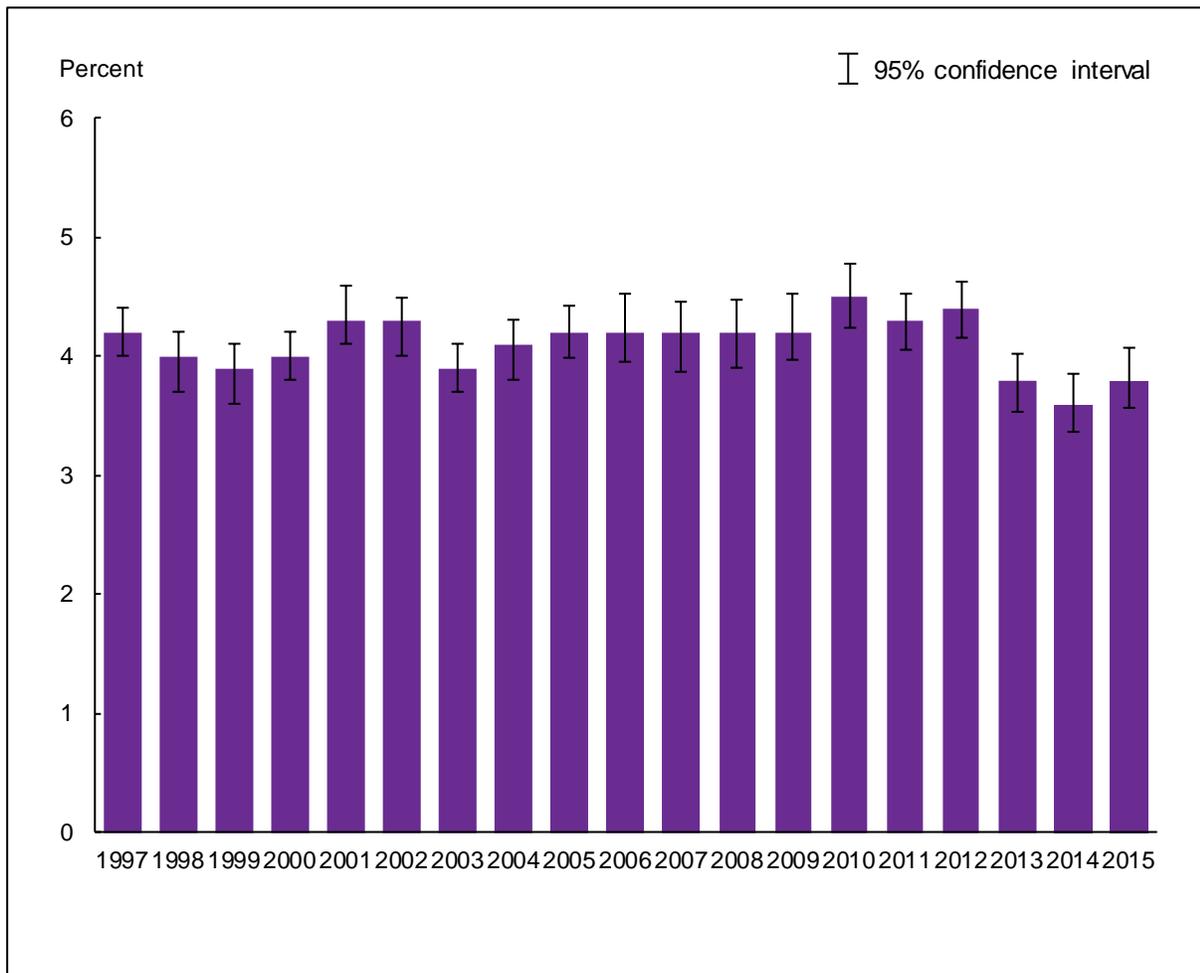


Asthma

Figure 15.1. Percentage of persons of all ages who experienced an asthma episode in the past 12 months: United States, 1997–2015

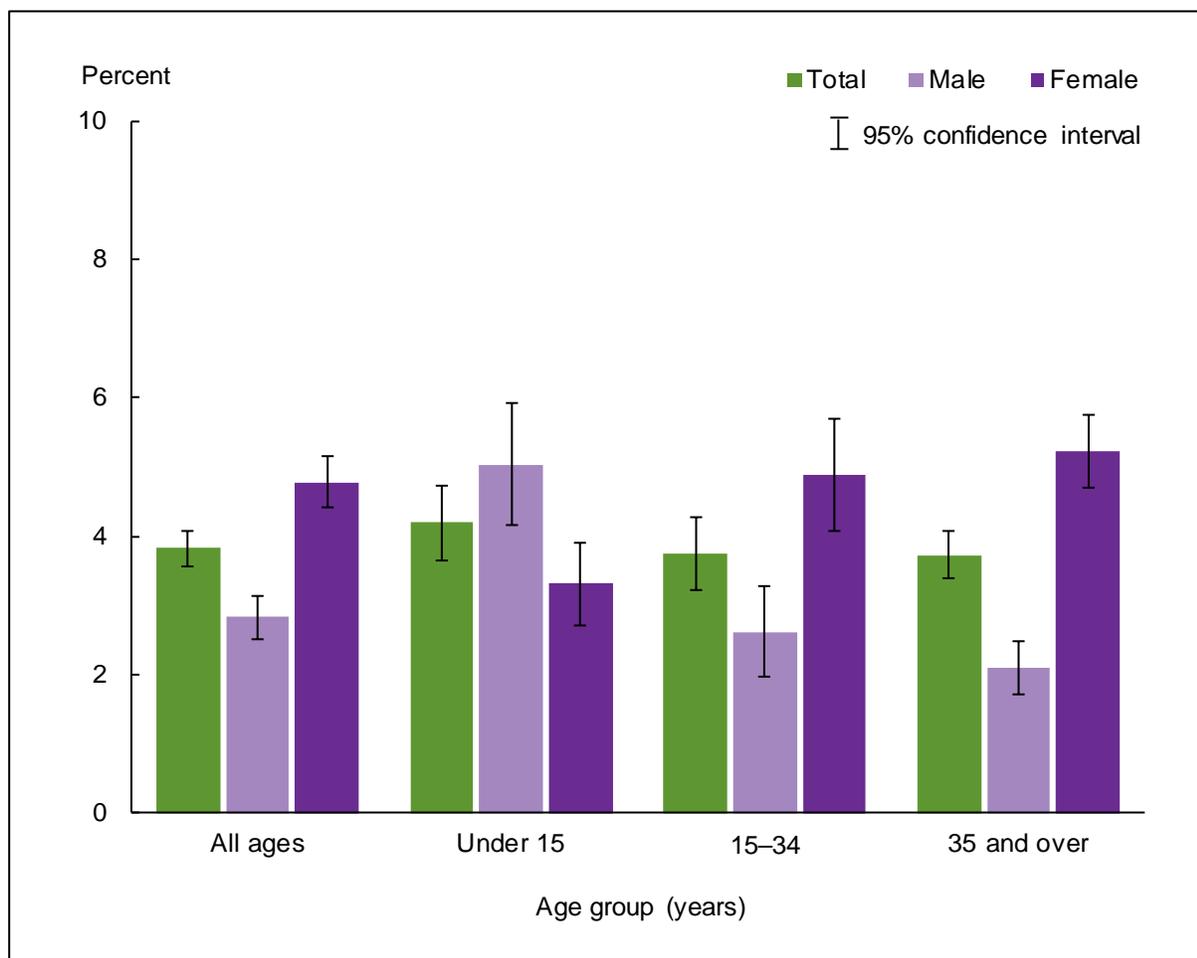


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an 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, 1997–2015, combined Sample Adult and Sample Child Core components.

- For 2015, the percentage of persons of all ages who experienced an asthma episode in the past 12 months was 3.8% (95% confidence interval = 3.57%–4.07%), which was not significantly different than the 2014 estimate of 3.6%.
- From 1997–2015, no clear trend was seen 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, 2015

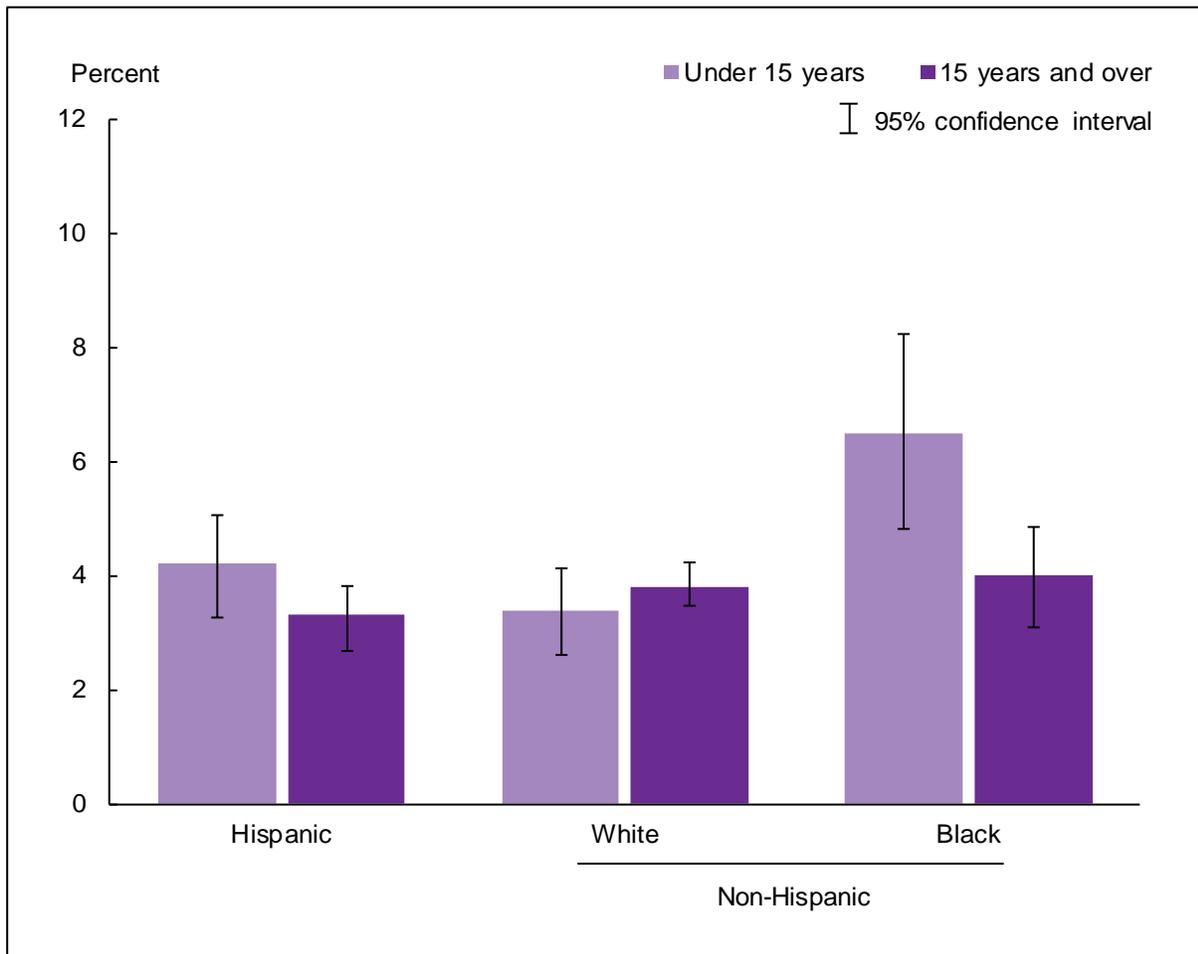


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an 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, 2015, combined Sample Adult and Sample Child Core components.

- For males, the percentages of persons by age group who had an asthma episode in the past 12 months were higher among children under age 15 years (5.0%) than among persons aged 15-34 (2.6%) and 35 and over (2.1%). For females, the percentage of persons who had an asthma episode in the past 12 months was lower among children under age 15 years (3.3%) than among persons aged 15-34 (4.9%) and 35 and over (5.2%).
- For persons of all ages and age groups 15-34 and 35 and over, the percentage of persons who had an asthma episode in the past 12 months was higher among females than among males. For persons under age 15 years, the percentage of persons who had an asthma episode in the past 12 months was higher among males than among females.

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, 2015

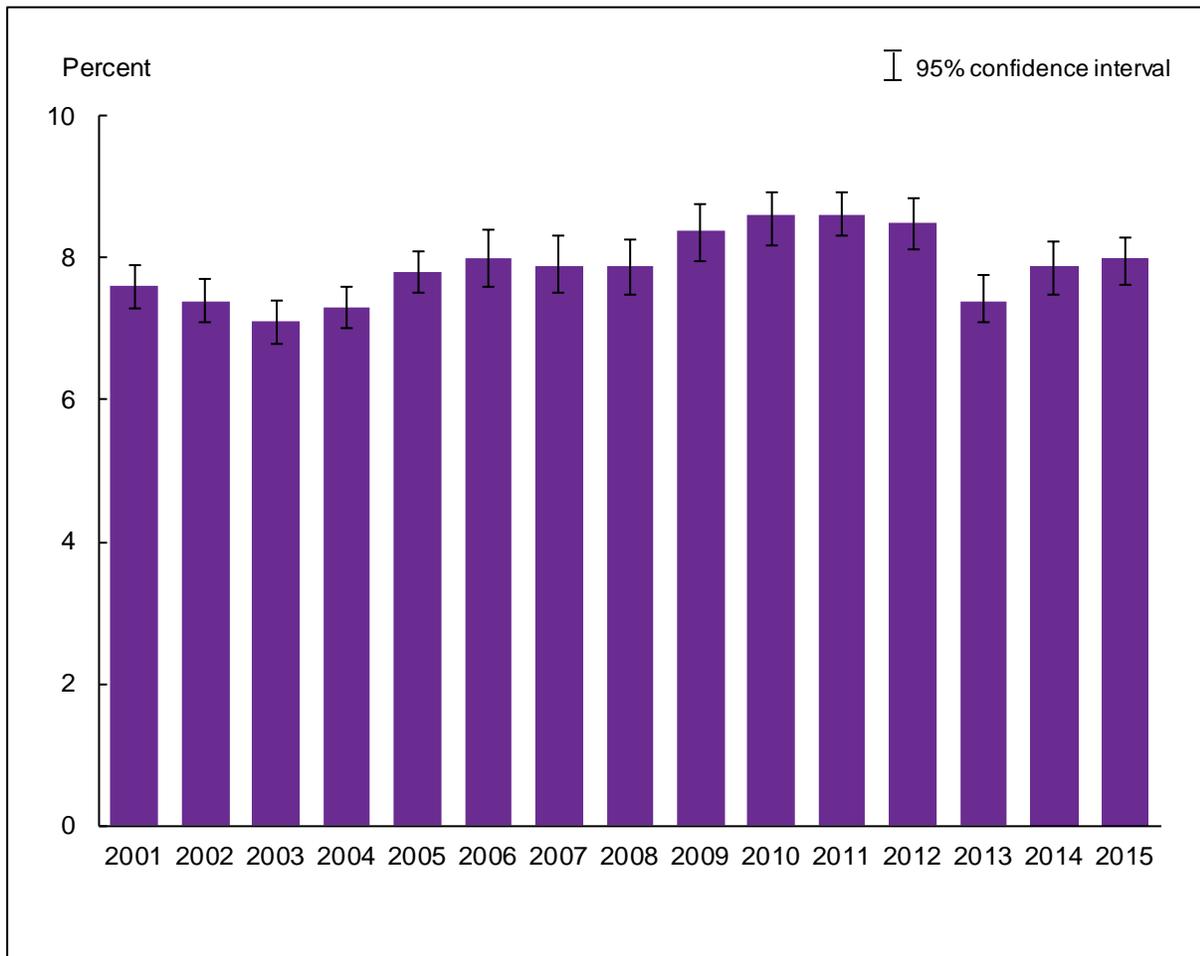


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on an episode of asthma or asthma attack during the past 12 months is self-reported by adults aged 18 years and over. For children under age 18 years, the information is collected from 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, 2015, combined Sample Adult and Sample Child Core components.

- For children under age 15 years, the sex-adjusted percentages by race/ethnicity who had an asthma episode in the past 12 months were 4.2% for Hispanic children, 3.4% for non-Hispanic white children, and 6.5% 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 3.3% for Hispanic persons, 3.8% for non-Hispanic white persons, and 4.0% for non-Hispanic black persons.
- After adjustment for sex, Hispanic children and non-Hispanic white children under age 15 were less likely to have had an asthma episode in the past 12 months than were non-Hispanic black children under age 15.

Figure 15.4. Prevalence of current asthma among persons of all ages: United States, 2001–2015

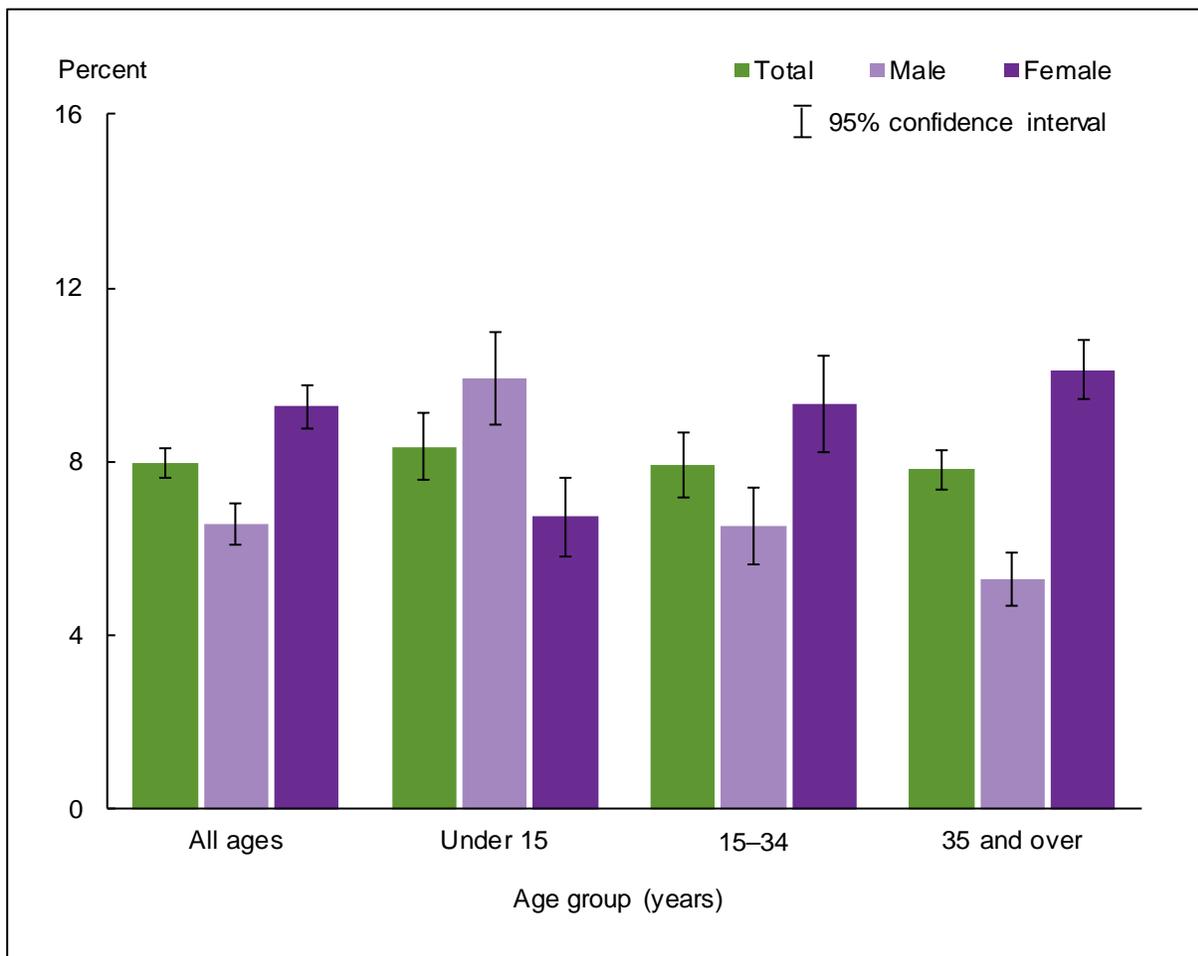


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Beginning in 2001, respondents were asked about current asthma in addition to the question regarding asthma episodes. Information on current asthma is self-reported by adults aged 18 and over. For 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, 2001–2015, combined Sample Adult and Sample Child Core components.

- For 2015, 8.0% (95% confidence interval = 7.62%–8.30%) of persons of all ages currently had asthma. This was not significantly different than the 2014 estimate of 7.9%.
- From 1997–2015, no clear trend was seen in the percentage of persons of all ages who currently had asthma.

Figure 15.5. Prevalence of current asthma among persons of all ages, by age group and sex: United States, 2015

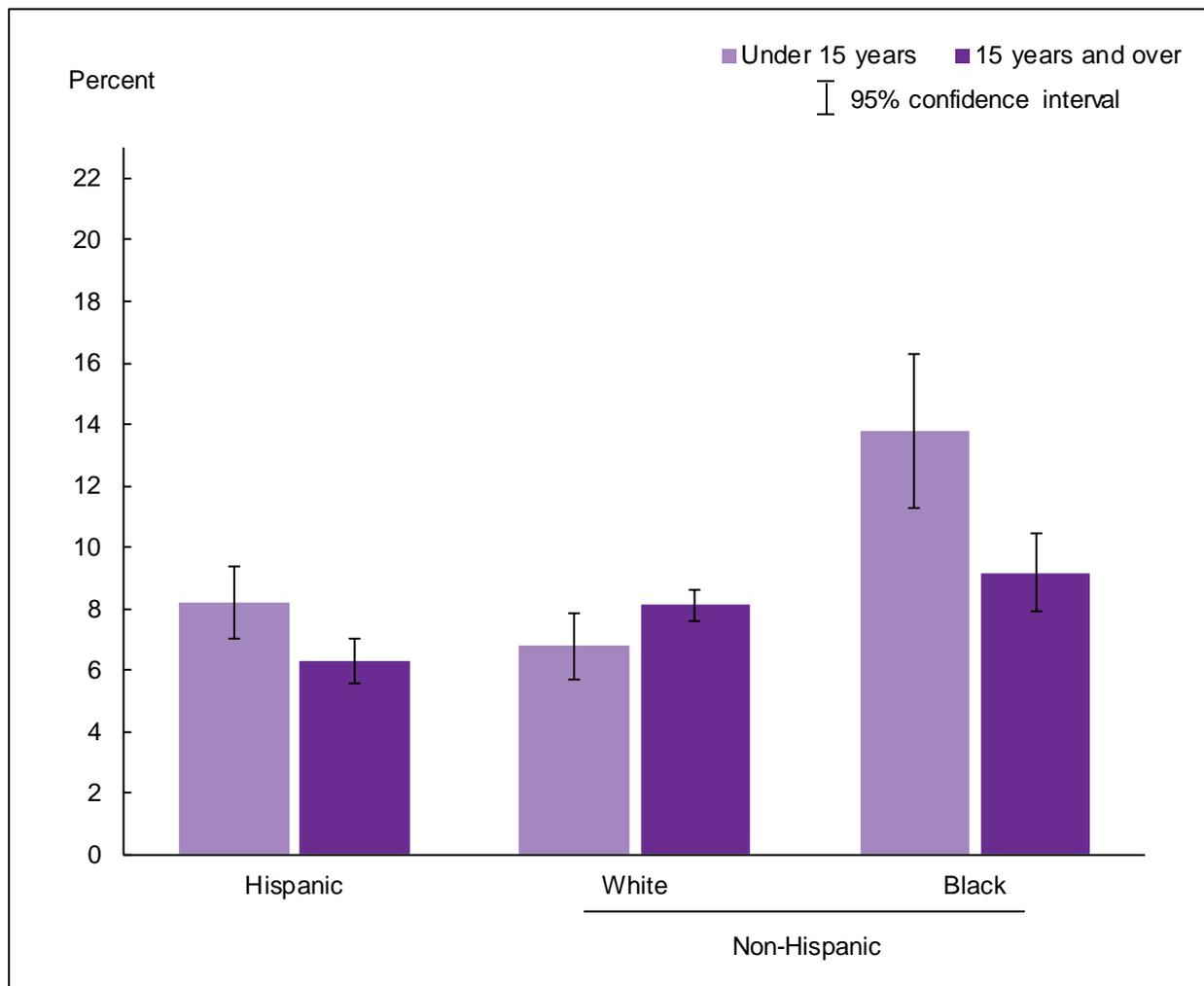


NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Information on current asthma is self-reported by adults aged 18 and over. For children under age 18 years, the information is collected from an adult family member, usually a parent, who is knowledgeable 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, 2015, combined Sample Adult and Sample Child Core components.

- For males, those under age 15 years (9.9%) were more likely to currently have asthma than were persons aged 15-34 (6.5%) and 35 and over (5.3%). For females, those under age 15 years (6.7%) were less likely to currently have asthma than were those aged 15-34 (9.3%) and 35 and over (10.1%).
- 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 males. For persons under age 15 years, the prevalence of current asthma was higher among males than females.

Figure 15.6. Sex-adjusted prevalence of current asthma among persons of all ages, by age group and race/ethnicity: United States, 2015



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, 2015, 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 (13.8%) than among Hispanic children (8.2%) and non-Hispanic white children (6.8%).
- For persons aged 15 years and over, the sex-adjusted prevalence of current asthma was higher among non-Hispanic black persons (9.2%), and non-Hispanic white persons (8.1%) compared with Hispanic persons (6.3%).

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, 1997–2015

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

¹Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 1997–2015, 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, 2015

Age (years) and sex	Percent	95% confidence interval
Under 15, total	4.2	3.64-4.73
Under 15, male	5.0	4.16-5.91
Under 15, female	3.3	2.71-3.90
15-34, total	3.7	3.21-4.28
15-34, male	2.6	1.96-3.27
15-34, female	4.9	4.06-5.68
35 and over, total	3.7	3.40-4.06
35 and over, male	2.1	1.70-2.47
35 and over, female	5.2	4.69-5.74
All ages (crude ¹), total	3.8	3.57-4.07
All ages (crude ¹), male	2.8	2.50-3.14
All ages (crude ¹), female	4.8	4.40-5.15
All ages (age-adjusted ²), total	3.8	3.58-4.08
All ages (age-adjusted ²), male	2.9	2.54-3.19
All ages (age-adjusted ²), female	4.7	4.34-5.08

¹Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 2015, 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, 2015

Age (years) and race/ethnicity	All persons	All persons with current asthma
	Sex-adjusted percent ¹ (95% confidence interval)	
Under 15, Hispanic or Latino	4.2 (3.27-5.05)	50.9 (42.98-58.77)
Under 15, not Hispanic or Latino, single race, white	3.4 (2.61-4.12)	49.7 (41.49-58.00)
Under 15, not Hispanic or Latino, single race, black	6.5 (4.83-8.24)	46.8 (37.66-55.95)
15 and over, Hispanic or Latino	3.3 (2.67-3.83)	49.1 (42.40-55.84)
15 and over, not Hispanic or Latino, single race, white	3.8 (3.48-4.22)	45.7 (42.24-49.13)
15 and over, not Hispanic or Latino, single race, black	4.0 (3.08-4.85)	41.5 (33.03-49.98)

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 2015, 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, 2001–2015

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

¹Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 2001–2015, 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, 2015

Age (years) and sex	Percent	95% confidence interval
Under 15, total	8.4	7.57-9.15
Under 15, male	9.9	8.86-10.99
Under 15, female	6.7	5.82-7.64
15-34, total	7.9	7.20-8.67
15-34, male	6.5	5.63-7.43
15-34, female	9.3	8.21-10.45
35 and over, total	7.8	7.38-8.28
35 and over, male	5.3	4.71-5.90
35 and over, female	10.1	9.43-10.81
All ages (crude ¹), total	8.0	7.62-8.30
All ages (crude ¹), male	6.6	6.10-7.05
All ages (crude ¹), female	9.3	8.78-9.78
All ages (age-adjusted ²), total	8.0	7.63-8.32
All ages (age-adjusted ²), male	6.6	6.16-7.11
All ages (age-adjusted ²), female	9.2	8.68-9.67

¹Crude estimates are presented.

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 2015, 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, 2015

Age (years) and race/ethnicity	Percent ¹	95% confidence interval
Under 15, Hispanic or Latino	8.2	7.03-9.38
Under 15, not Hispanic or Latino, single race, white	6.8	5.68-7.89
Under 15, not Hispanic or Latino, single race, black	13.8	11.30-16.26
15 and over, Hispanic or Latino	6.3	5.57-7.04
15 and over, not Hispanic or Latino, single race, white	8.1	7.62-8.65
15 and over, not Hispanic or Latino, single race, black	9.2	7.92-10.44

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

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

DATA SOURCE: NCHS, National Health Interview Survey, 2015, combined Sample Adult and Sample Child Core components.