

Table AsthCh. Asthma in children under age 18, by selected characteristics: United States, selected years 1997–2019

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2020-2021.htm#Table-AsthCh>

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	Current asthma ¹								
	1997	2000	2005	2009	2015	2016	2017	2018	2019
	Percent of children								
Total, under 18 years ²	---	---	8.9	9.6	8.4	8.3	8.4	7.5	7.0
Age group									
0–4 years	---	---	6.8	6.3	4.7	3.8	4.4	3.8	2.6
5–17 years	---	---	9.7	11.0	9.8	10.0	9.9	8.9	8.6
5–9 years	---	---	9.7	10.2	9.0	9.2	8.4	7.4	7.8
10–17 years	---	---	9.8	11.4	10.3	10.5	10.8	9.9	9.1
Sex									
Male	---	---	10.0	11.3	9.9	9.2	9.5	8.3	8.4
Female	---	---	7.8	7.9	6.9	7.4	7.3	6.7	5.5
Race ³									
White only	---	---	8.0	8.2	7.5	6.8	7.6	6.1	5.9
Black or African American only	---	---	13.2	16.8	13.5	15.1	12.8	14.1	13.5
American Indian or Alaska Native only	---	---	*	*	11.4	15.1	*	*	*
Asian only	---	---	*6.5	7.7	5.3	4.0	3.8	3.9	4.2
Native Hawaiian or Other Pacific Islander only	---	---	*	*	*	*	*	*	*
2 or more races	---	---	12.6	13.8	10.2	13.8	12.8	13.2	10.0
Hispanic origin and race ³									
Hispanic or Latino	---	---	8.6	7.7	8.0	6.7	7.7	8.0	6.7
Not Hispanic or Latino	---	---	9.0	10.2	8.6	8.9	8.7	7.4	7.1
White only	---	---	7.9	8.5	7.4	7.1	7.7	5.6	5.7
Black or African American only	---	---	13.1	17.0	13.4	15.7	12.6	14.3	13.5
Percent of poverty level ⁴									
Below 100%	---	---	10.6	13.5	10.7	10.5	11.0	10.2	10.5
100%–199%	---	---	8.3	9.4	9.4	9.9	9.1	9.0	7.2
200%–399%	---	---	9.0	7.3	7.4	7.4	8.1	7.0	6.8
400% or more	---	---	8.2	9.3	7.0	6.6	6.7	5.5	4.9
Health insurance status at time of interview ⁵									
Insured	---	---	9.2	9.9	8.5	8.4	8.6	7.7	7.2
Private	---	---	8.1	8.5	7.3	7.2	7.5	6.8	5.2
Medicaid	---	---	11.9	11.9	10.3	10.1	10.8	9.4	10.2
Uninsured	---	---	6.5	7.0	6.8	8.3	5.6	5.1	2.5

Characteristic	Asthma attack in past 12 months ⁶								
	1997	2000	2005	2009	2015	2016	2017	2018	2019
	Percent of children								
Total, under 18 years ²	5.5	5.5	5.2	5.5	4.2	4.7	4.6	4.3	3.3
Age group									
0–4 years	4.1	4.4	4.4	4.5	3.2	2.5	2.9	2.9	1.4
5–17 years	6.0	6.0	5.5	5.9	4.6	5.5	5.2	4.8	4.0
5–9 years	5.7	5.9	6.3	5.7	5.1	5.7	4.5	4.7	4.2
10–17 years	6.1	6.0	5.0	6.0	4.3	5.4	5.6	4.8	3.9
Sex									
Male	5.9	6.6	5.9	6.3	4.8	5.2	5.0	5.1	3.9
Female	5.0	4.4	4.4	4.6	3.6	4.2	4.2	3.4	2.7

See footnotes at end of table.

Table AsthCh. Asthma in children under age 18, by selected characteristics: United States, selected years 1997–2019—Con.

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2020-2021.htm#Table-AsthCh>

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

Characteristic	Asthma attack in past 12 months ⁶								
	1997	2000	2005	2009	2015	2016	2017	2018	2019
Race ³									
Percent of children									
White only	5.2	5.1	4.8	4.7	3.7	3.8	4.2	3.6	3.0
Black or African American only	6.9	7.4	6.9	8.9	6.3	8.1	6.1	7.9	6.1
American Indian or Alaska Native only	*	*	*	*	*	*	*	*	*
Asian only	---	*4.9	*4.0	*5.2	2.6	2.9	1.7	2.5	2.2
Native Hawaiian or Other Pacific Islander only	---	*	*	*	*	*	*	*	*
2 or more races	---	*6.5	*6.8	9.2	*	8.4	8.5	5.5	4.0
Hispanic origin and race ³									
Hispanic or Latino	5.1	4.2	5.3	4.2	4.2	3.5	3.8	4.0	2.9
Not Hispanic or Latino	5.5	5.8	5.2	5.9	4.2	5.1	4.8	4.3	3.4
White only	5.3	5.4	4.8	5.0	3.6	4.0	4.5	3.5	2.8
Black or African American only	6.7	7.5	6.6	8.9	6.2	8.6	6.2	8.0	6.4
Percent of poverty level ⁴									
Below 100%	5.6	7.0	6.1	7.2	5.7	5.9	6.3	6.3	5.4
100%–199%	5.2	5.4	4.8	5.5	5.1	5.2	4.5	5.3	3.1
200%–399%	5.5	5.1	5.1	4.2	3.3	4.2	4.1	3.2	3.2
400% or more	5.6	5.3	5.1	5.6	3.2	4.0	4.0	3.4	2.2
Health insurance status at time of interview ⁵									
Insured	5.7	5.8	5.4	5.8	4.3	4.7	4.7	4.3	3.4
Private	5.2	5.3	4.8	5.3	3.3	4.0	4.4	3.6	2.4
Medicaid	7.6	7.7	6.7	6.5	5.6	5.9	5.5	5.5	5.1
Uninsured	4.0	3.8	3.6	2.6	2.6	4.5	3.2	3.8	1.1

--- Data not available.

* Estimates are considered unreliable. Starting with 2016 data, the reliability of survey percentage estimates is assessed using new multistep National Center for Health Statistics data presentation standards for proportions. Before 2016 data, the reliability of estimates was evaluated based on relative standard errors (RSEs). Data preceded by an asterisk have an RSE of 20%–30%. Data not shown have an RSE greater than 30%. For more information, see Sources and Definitions, Relative standard error (RSE); Statistical reliability of estimates.

¹Starting in 2003, based on a parent or knowledgeable adult responding to both questions, “Has a doctor or other health professional ever told you that [child] had asthma?” and “Does [child] still have asthma?” See Sources and Definitions, Asthma.

²Includes all other races not shown separately and those with unknown sex, unknown poverty level, and unknown health insurance status.

³The race groups White, Black, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, and 2 or more races include people of Hispanic and non-Hispanic origin. People of Hispanic origin may be of any race. Starting with 1999 data, race-specific estimates are tabulated according to the 1997 “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity” and are not strictly comparable with estimates for earlier years. The five single- and multiple-race categories shown follow the 1997 standards. The race-specific estimates are for people who reported only one racial group; the category 2 or more races includes people who reported more than one racial group. Starting with 2003 data, race responses of other race and unspecified multiple race are treated as missing, and then race is imputed if these were the only race responses. Almost all people with a race response of other race are of Hispanic origin. See Sources and Definitions, Hispanic origin; Race.

⁴Based on family income and family size and composition using U.S. Census Bureau poverty thresholds. Missing family income data are imputed for 1997 and beyond. See Sources and Definitions, Family income; Poverty.

⁵Categories are mutually exclusive. People who reported both Medicaid and private coverage are classified as having private coverage. Starting with 1997 data, state-sponsored health plan coverage is included as Medicaid coverage. Starting with 1999 data, coverage by the Children’s Health Insurance Program (CHIP) is included as Medicaid coverage. In addition to private and Medicaid, the insured category includes military plans, other government-sponsored health plans, and Medicare. People not covered by private insurance, Medicaid, CHIP, state-sponsored or other government-sponsored health plans (starting in 1997), Medicare, or military plans are considered to have no health insurance coverage. People with only Indian Health Service coverage are considered to have no health insurance coverage. See Sources and Definitions, Health insurance coverage.

⁶Based on a parent or knowledgeable adult responding to both questions, “Has a doctor or other health professional ever told you that [child] had asthma?” and “During the past 12 months, has [child] had an episode of asthma or an asthma attack?” See Sources and Definitions, Asthma.

NOTES: In 2019, the National Health Interview Survey (NHIS) questionnaire was redesigned and other changes were made to weighting and design methodology. Data for 2019 have not been fully evaluated for comparability with earlier years. For more information on the 2019 NHIS redesign and evaluation of the redesign on selected indicators, see: https://www.cdc.gov/nchs/nhis/2019_quest_redesign.htm. Standard errors and data for additional years are available in the Excel spreadsheet version of this table on the *Health, United States* website at: <https://www.cdc.gov/nchs/hus/index.htm>.

SOURCE: National Center for Health Statistics, National Health Interview Survey. See Sources and Definitions, National Health Interview Survey (NHIS).