

**Table C-1a. Age-adjusted percentages (with standard errors) of ever having asthma and still having asthma for children under age 18 years, by selected characteristics: United States, 2016**

Selected characteristic	Ever told had asthma <sup>1</sup>	Still have asthma <sup>1</sup>
Total	12.7 (0.39)	8.4 (0.33)
Sex		
Male	14.4 (0.56)	9.3 (0.49)
Female	11.0 (0.54)	7.4 (0.47)
Age		
0-4 years	5.1 (0.54)	3.8 (0.46)
5-11 years	13.6 (0.65)	9.6 (0.58)
12-17 years	17.9 (0.79)	10.5 (0.64)
Race		
One race <sup>2</sup>	12.4 (0.38)	8.1 (0.33)
White	11.0 (0.41)	6.8 (0.35)
Black or African American	20.5 (1.34)	15.4 (1.20)
American Indian or Alaska Native	18.9 (4.50)	16.1 (4.36)
Asian	7.7 (1.30)	4.0 (0.93)
Native Hawaiian or Other Pacific Islander	*	*
Two or more races <sup>3</sup>	19.3 (2.01)	14.1 (1.76)
Black or African American and white	17.7 (3.09)	13.4 (2.74)
American Indian or Alaska Native and white	19.9 (4.36)	17.8 (4.36)
Hispanic or Latino origin <sup>4</sup> and race		
Hispanic or Latino	11.4 (0.74)	6.8 (0.63)
Mexican or Mexican American	10.8 (0.87)	6.5 (0.78)
Not Hispanic or Latino	13.1 (0.45)	8.9 (0.39)
White, single race	11.2 (0.52)	7.0 (0.42)
Black or African American only, single race	20.7 (1.37)	15.9 (1.26)
Family structure <sup>5</sup>		
Mother and father	11.0 (0.44)	6.9 (0.37)
Mother, no father	17.7 (0.97)	12.8 (0.85)
Father, no mother	8.8 (1.39)	4.5 (0.99)
Neither mother nor father	22.3 (2.86)	15.6 (2.49)
Parent's education <sup>6</sup>		
Less than high school diploma	10.8 (1.25)	7.4 (1.12)
High school diploma or GED <sup>7</sup>	14.3 (1.04)	9.4 (0.89)
More than high school	12.2 (0.47)	7.9 (0.39)
Family income <sup>8</sup>		
Less than \$35,000	16.3 (0.86)	11.7 (0.76)
\$35,000 or more	11.6 (0.45)	7.1 (0.37)
\$35,000-\$49,999	12.8 (1.21)	9.2 (1.03)
\$50,000-\$74,999	12.2 (1.07)	7.3 (0.83)
\$75,000-\$99,999	10.5 (1.06)	6.7 (0.89)
\$100,000 or more	11.2 (0.68)	6.3 (0.53)
Poverty status <sup>9</sup>		
Poor	14.9 (1.03)	10.7 (0.93)
Near poor	13.9 (0.89)	9.8 (0.76)
Not poor	11.3 (0.48)	6.7 (0.39)

**Table C-1a. Age-adjusted percentages (with standard errors) of ever having asthma and still having asthma for children under age 18 years, by selected characteristics: United States, 2016**

Selected characteristic	Ever told had asthma <sup>1</sup>	Still have asthma <sup>1</sup>
Health insurance coverage <sup>10</sup>		
Private	11.1 (0.50)	7.2 (0.42)
Medicaid or other public	15.3 (0.72)	10.3 (0.60)
Other	11.4 (2.10)	6.9 (1.88)
Uninsured	10.9 (1.78)	7.8 (1.60)
Place of residence <sup>11</sup>		
Large MSA	12.2 (0.54)	7.8 (0.46)
Small MSA	13.4 (0.64)	9.1 (0.56)
Not in MSA	13.6 (1.02)	9.2 (0.90)
Region		
Northeast	13.3 (0.98)	8.2 (0.82)
Midwest	11.8 (0.81)	7.8 (0.67)
South	13.4 (0.66)	9.3 (0.58)
West	12.1 (0.70)	7.6 (0.64)
Current health status		
Excellent or very good	11.2 (0.41)	6.9 (0.33)
Good	19.5 (1.37)	15.2 (1.27)
Fair or poor	31.6 (4.03)	25.6 (3.82)

\* Estimate is considered unreliable, as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf)), and is not shown.

<sup>1</sup>Based on the questions, "Has a doctor or other health professional ever told you that [child's name] had asthma?" and "Does [child's name] still have asthma?"

<sup>2</sup>Refers to children with only a single race group indicated, including those of Hispanic or Latino origin.

<sup>3</sup>Refers to children with more than one race group indicated, including those of Hispanic or Latino origin. Only two combinations of multiple race groups are shown due to small sample sizes for other combinations.

<sup>4</sup>Refers to children who are of Hispanic or Latino origin and may be of any race or combination of races. "Not Hispanic or Latino" refers to children who are not of Hispanic or Latino origin, regardless of race.

<sup>5</sup>Refers to parents living in the household. "Mother and father" can include biological, adoptive, step, in-law, or foster relationships. Legal guardians are classified in "Neither mother nor father."

<sup>6</sup>Refers to the education level of the parent with the higher level of education, regardless of that parent's age, provided the parent(s) live(s) in the household.

<sup>7</sup>GED is General Educational Development high school equivalency diploma.

<sup>8</sup>Includes children in families that reported either dollar amounts or would not provide a dollar amount but provided an income interval.

<sup>9</sup>"Poor" children live in families defined as below the poverty threshold. "Near poor" children live in families with incomes of 100% to less than 200% of the poverty threshold. "Not poor" children live in families with incomes that are 200% of the poverty threshold or greater.

<sup>10</sup>Based on a hierarchy of mutually exclusive categories. Children with more than one type of health insurance were assigned to the first appropriate category in the hierarchy. "Uninsured" includes children who had no coverage as well as those who 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.

<sup>11</sup>MSA is metropolitan statistical area. Large MSAs have a population size of 1 million or more; small MSAs have a population size of less than 1 million. "Not in MSA" consists of persons not living in a metropolitan statistical area.

NOTES: Based on household interviews of a sample of the civilian noninstitutionalized population. This table is based on responses about the sample child, not all children in the family. Data came from the Sample Child File and were weighted using the Sample Child weight. Estimates are age adjusted using the projected 2000 U.S. population as the standard population and using age groups 0-4 years, 5-11 years, and 12-17 years. Estimates for age groups are not age-adjusted. Unknowns for the columns were not included in the denominators when calculating percentages. Percentages may not add to totals due to rounding. "Total" includes children of other races not shown separately and children with unknown family structure, parent's education, family income, poverty status, health insurance, or current health status. For more information on the data source, methods, and definitions used for this table, refer to Technical Notes for Summary Health Statistics Tables: National Health Interview Survey (available from <https://www.cdc.gov/nchs/nhis/SHS/tables.htm>). Suggested citation: Black LI, Benson V. Tables of Summary Health Statistics for U.S. Children: 2016 National Health Interview Survey. 2018. Available from: <https://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2016.

**Table C-1b. Frequencies (in thousands) of ever having asthma and still having asthma for children under age 18 years, by selected characteristics: United States, 2016**

Selected characteristic	All children under age 18		
	years	Ever told had asthma <sup>1</sup>	Still have asthma <sup>1</sup>
Total	73,566	9,352	6,132
Sex			
Male	37,543	5,396	3,461
Female	36,023	3,956	2,671
Age			
0-4 years	19,993	1,017	767
5-11 years	28,693	3,888	2,750
12-17 years	24,879	4,447	2,615
Race			
One race <sup>2</sup>	69,888	8,665	5,627
White	54,059	6,019	3,698
Black or African American	10,774	2,158	1,619
American Indian or Alaska Native	938	165	142
Asian	3,896	299	156
Native Hawaiian or Other Pacific Islander	221	*	*
Two or more races <sup>3</sup>	3,678	687	505
Black or African American and white	1,505	249	193
American Indian or Alaska Native and white	644	128	113
Hispanic or Latino origin <sup>4</sup> and race			
Hispanic or Latino	18,311	2,072	1,233
Mexican or Mexican American	11,668	1,258	760
Not Hispanic or Latino	55,255	7,280	4,899
White, single race	37,862	4,303	2,687
Black or African American only, single race	9,959	2,031	1,561
Family structure <sup>5</sup>			
Mother and father	51,914	5,586	3,491
Mother, no father	16,526	2,967	2,134
Father, no mother	2,786	274	144
Neither mother nor father	2,340	525	363
Parent's education <sup>6</sup>			
Less than high school diploma	7,691	837	560
High school diploma or GED <sup>7</sup>	12,518	1,762	1,158
More than high school	50,845	6,189	4,012
Family income <sup>8</sup>			
Less than \$35,000	18,873	3,035	2,186
\$35,000 or more	47,339	5,500	3,359
\$35,000-\$49,999	7,601	949	680
\$50,000-\$74,999	10,642	1,269	759
\$75,000-\$99,999	8,340	867	562
\$100,000 or more	20,756	2,414	1,358
Poverty status <sup>9</sup>			
Poor	13,371	1,964	1,414
Near poor	16,615	2,278	1,614
Not poor	40,480	4,648	2,741

**Table C-1b. Frequencies (in thousands) of ever having asthma and still having asthma for children under age 18 years, by selected characteristics: United States, 2016**

Selected characteristic	All children under age 18 years	Ever told had asthma <sup>1</sup>	Still have asthma <sup>1</sup>
Health insurance coverage <sup>10</sup>			
Private	39,933	4,523	2,887
Medicaid or other public	27,521	4,101	2,782
Other	1,973	219	133
Uninsured	3,799	441	314
Place of residence <sup>11</sup>			
Large MSA	41,940	5,118	3,260
Small MSA	21,607	2,876	1,951
Not in MSA	10,019	1,358	921
Region			
Northeast	13,278	1,785	1,091
Midwest	15,776	1,879	1,230
South	27,040	3,570	2,475
West	17,472	2,118	1,336
Current health status			
Excellent or very good	62,273	6,897	4,221
Good	9,984	2,036	1,572
Fair or poor	1,298	420	339

\* Corresponding crude percentage for the frequency is considered unreliable, as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf)), so the frequency is not shown.

<sup>1</sup>Based on the questions, "Has a doctor or other health professional ever told you that [child's name] had asthma?" and "Does [child's name] still have asthma?"

<sup>2</sup>Refers to children with only a single race group indicated, including those of Hispanic or Latino origin.

<sup>3</sup>Refers to children with more than one race group indicated, including those of Hispanic or Latino origin. Only two combinations of multiple race groups are shown due to small sample sizes for other combinations.

<sup>4</sup>Refers to children who are of Hispanic or Latino origin and may be of any race or combination of races. "Not Hispanic or Latino" refers to children who are not of Hispanic or Latino origin, regardless of race.

<sup>5</sup>Refers to parents living in the household. "Mother and father" can include biological, adoptive, step, in-law, or foster relationships. Legal guardians are classified in "Neither mother nor father."

<sup>6</sup>Refers to the education level of the parent with the higher level of education, regardless of that parent's age, provided the parent(s) live(s) in the household.

<sup>7</sup>GED is General Educational Development high school equivalency diploma.

<sup>8</sup>Includes children in families that reported either dollar amounts or would not provide a dollar amount but provided an income interval.

<sup>9</sup>"Poor" children live in families defined as below the poverty threshold. "Near poor" children live in families with incomes of 100% to less than 200% of the poverty threshold. "Not poor" children live in families with incomes that are 200% of the poverty threshold or greater.

<sup>10</sup>Based on a hierarchy of mutually exclusive categories. Children with more than one type of health insurance were assigned to the first appropriate category in the hierarchy. "Uninsured" includes children who had no coverage as well as those who 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.

<sup>11</sup>MSA is metropolitan statistical area. Large MSAs have a population size of 1 million or more; small MSAs have a population size of less than 1 million. "Not in MSA" consists of persons not living in a metropolitan statistical area.

NOTES: Based on household interviews of a sample of the civilian noninstitutionalized population. This table is based on responses about the sample child, not all children in the family. Data came from the Sample Child File and were weighted using the Sample Child weight. Estimates of "All children under 18 years" in this table differ slightly from estimates of "All children under 18 years" in the other detailed tables that were based on the Person File and were weighted using the Person weight. Unknowns for the columns were not included in the frequencies, but they are included in the "All children under 18 years" column. "Total" includes children of other races not shown separately and children with unknown family structure, parent's education, family income, poverty status, health insurance, or current health status. For more information on the data source, methods, and definitions used for this table, refer to Technical Notes for Summary Health Statistics Tables: National Health Interview Survey (available from <https://www.cdc.gov/nchs/nhis/SHS/tables.htm>). Suggested citation: Black LI, Benson V. Tables of Summary Health Statistics for U.S. Children: 2016 National Health Interview Survey. 2018. Available from: <https://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2016.

**Table C-1c. Crude percentages (with standard errors) of ever having asthma and still having asthma for children under age 18 years, by selected characteristics: United States, 2016**

Selected characteristic	Ever told had asthma <sup>1</sup>	Still have asthma <sup>1</sup>
Total	12.7 (0.39)	8.3 (0.33)
Sex		
Male	14.4 (0.57)	9.2 (0.50)
Female	11.0 (0.54)	7.4 (0.46)
Age		
0-4 years	5.1 (0.54)	3.8 (0.46)
5-11 years	13.6 (0.65)	9.6 (0.58)
12-17 years	17.9 (0.79)	10.5 (0.64)
Race		
One race <sup>2</sup>	12.4 (0.39)	8.1 (0.33)
White	11.1 (0.42)	6.8 (0.35)
Black or African American	20.1 (1.36)	15.1 (1.20)
American Indian or Alaska Native	17.5 (4.58)	15.1 (4.44)
Asian	7.7 (1.31)	4.0 (0.94)
Native Hawaiian or Other Pacific Islander	*	*
Two or more races <sup>3</sup>	18.7 (1.97)	13.8 (1.75)
Black or African American and white	16.5 (2.99)	12.9 (2.72)
American Indian or Alaska Native and white	19.9 (4.43)	17.9 (4.42)
Hispanic or Latino origin <sup>4</sup> and race		
Hispanic or Latino	11.3 (0.75)	6.7 (0.63)
Mexican or Mexican American	10.8 (0.89)	6.5 (0.79)
Not Hispanic or Latino	13.2 (0.46)	8.9 (0.39)
White, single race	11.4 (0.53)	7.1 (0.43)
Black or African American only, single race	20.5 (1.39)	15.7 (1.26)
Family structure <sup>5</sup>		
Mother and father	10.8 (0.44)	6.7 (0.37)
Mother, no father	18.0 (0.98)	12.9 (0.85)
Father, no mother	9.9 (1.52)	5.2 (1.13)
Neither mother nor father	22.5 (3.03)	15.5 (2.53)
Parent's education <sup>6</sup>		
Less than high school diploma	10.9 (1.23)	7.3 (1.08)
High school diploma or GED <sup>7</sup>	14.1 (1.03)	9.3 (0.88)
More than high school	12.2 (0.47)	7.9 (0.39)
Family income <sup>8</sup>		
Less than \$35,000	16.1 (0.86)	11.6 (0.76)
\$35,000 or more	11.6 (0.46)	7.1 (0.38)
\$35,000-\$49,999	12.5 (1.21)	8.9 (1.01)
\$50,000-\$74,999	12.0 (1.08)	7.2 (0.83)
\$75,000-\$99,999	10.4 (1.09)	6.8 (0.90)
\$100,000 or more	11.6 (0.72)	6.5 (0.56)
Poverty status <sup>9</sup>		
Poor	14.7 (1.03)	10.6 (0.92)
Near poor	13.7 (0.89)	9.7 (0.77)
Not poor	11.5 (0.50)	6.8 (0.40)

**Table C-1c. Crude percentages (with standard errors) of ever having asthma and still having asthma for children under age 18 years, by selected characteristics: United States, 2016**

Selected characteristic	Ever told had asthma <sup>1</sup>	Still have asthma <sup>1</sup>
Health insurance coverage <sup>10</sup>		
Private	11.3 (0.52)	7.2 (0.42)
Medicaid or other public	14.9 (0.71)	10.1 (0.59)
Other	11.1 (2.07)	6.8 (1.86)
Uninsured	11.7 (1.91)	8.3 (1.66)
Place of residence <sup>11</sup>		
Large MSA	12.2 (0.55)	7.8 (0.46)
Small MSA	13.3 (0.65)	9.0 (0.57)
Not in MSA	13.6 (1.03)	9.2 (0.90)
Region		
Northeast	13.5 (1.01)	8.2 (0.82)
Midwest	11.9 (0.83)	7.8 (0.68)
South	13.2 (0.66)	9.2 (0.57)
West	12.1 (0.72)	7.7 (0.65)
Current health status		
Excellent or very good	11.1 (0.41)	6.8 (0.33)
Good	20.5 (1.40)	15.8 (1.28)
Fair or poor	32.3 (4.24)	26.1 (3.97)

\* Estimate is considered unreliable, as specified in National Center for Health Statistics Data Presentation Standards for Proportions (available from: [https://www.cdc.gov/nchs/data/series/sr\\_02/sr02\\_175.pdf](https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf)), and is not shown.

<sup>1</sup>Based on the questions, "Has a doctor or other health professional ever told you that [child's name] had asthma?" and "Does [child's name] still have asthma?"

<sup>2</sup>Refers to children with only a single race group indicated, including those of Hispanic or Latino origin.

<sup>3</sup>Refers to children with more than one race group indicated, including those of Hispanic or Latino origin. Only two combinations of multiple race groups are shown due to small sample sizes for other combinations.

<sup>4</sup>Refers to children who are of Hispanic or Latino origin and may be of any race or combination of races. "Not Hispanic or Latino" refers to children who are not of Hispanic or Latino origin, regardless of race.

<sup>5</sup>Refers to parents living in the household. "Mother and father" can include biological, adoptive, step, in-law, or foster relationships. Legal guardians are classified in "Neither mother nor father."

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<sup>8</sup>Includes children in families that reported either dollar amounts or would not provide a dollar amount but provided an income interval.

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<sup>10</sup>Based on a hierarchy of mutually exclusive categories. Children with more than one type of health insurance were assigned to the first appropriate category in the hierarchy. "Uninsured" includes children who had no coverage as well as those who 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.

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NOTES: Based on household interviews of a sample of the civilian noninstitutionalized population. This table is based on responses about the sample child, not all children in the family. Data came from the Sample Child File and were weighted using the Sample Child weight. Unknowns for the columns were not included in the denominators when calculating percentages. Percentages may not add to totals due to rounding. "Total" includes children of other races not shown separately and children with unknown family structure, parent's education, family income, poverty status, health insurance, or current health status. For more information on the data source, methods, and definitions used for this table, refer to Technical Notes for Summary Health Statistics Tables: National Health Interview Survey (available from <https://www.cdc.gov/nchs/nhis/SHS/tables.htm>). Suggested citation: Black LI, Benson V. Tables of Summary Health Statistics for U.S. Children: 2016 National Health Interview Survey. 2018. Available from: <https://www.cdc.gov/nchs/nhis/SHS/tables.htm>.

SOURCE: NCHS, National Health Interview Survey, 2016.