

# Health

## Respiratory Diseases

**Table H1: Percentage of children ages 0 to 17 years with asthma, 1997-2010**

1997-2003							
	1997	1998	1999	2000	2001	2002	2003
Asthma attack prevalence	5.5	5.3	5.3	5.5	5.7	5.8	5.5
Current asthma prevalence†					8.7	8.3	8.5
2004-2009							
	2004	2005	2006	2007	2008	2009	2010
Asthma attack prevalence	5.5	5.2	5.6	5.2	5.6	5.5	5.7
Current asthma prevalence†	8.5	8.9	9.3	9.1	9.4	9.6	9.4

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey

NOTE: Data represent responses to the following survey questions: "Has a doctor or other health professional ever told you that <child's name> had asthma?" and if yes, "During the past 12 months, has <child's name> had an episode of asthma or an asthma attack?" For 2001-2010 the survey included the question: "Does <child's name> still have asthma?" Responses are provided by a parent or other knowledgeable household adult.

† This survey question was first asked in 2001.

**Table H1a: Percentage of children ages 0 to 17 years with current asthma, 2001-2010, by sex**

	2001	2002	2003	2004	2005
All children	8.7	8.3	8.5	8.5	8.9
Boys	9.9	9.5	9.5	10.2	10.0
Girls	7.5	7.2	7.5	6.7	7.8
	2006	2007	2008	2009	2010
All children	9.3	9.1	9.4	9.6	9.4
Boys	11.0	9.7	11.4	11.3	10.5
Girls	7.5	8.5	7.4	7.9	8.2

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey

NOTE: Data represent responses to the following survey questions: "Has a doctor or other health professional ever told you that <child's name> had asthma?" and if yes, "During the past 12 months, has <child's name> had an episode of asthma or an asthma attack?" For 2001-2010 the survey included the question: "Does <child's name> still have asthma?" Responses are provided by a parent or other knowledgeable household adult.

**Table H1b: Percentage of children ages 0 to 17 years with asthma, 1980-1996†**

1980-1987									
	1980	1981	1982	1983	1984	1985	1986	1987	
Asthma in the past 12 months	3.6	3.7	4.1	4.5	4.3	4.8	5.1	5.3	
1988-1996									
	1988	1989	1990	1991	1992	1993	1994	1995	1996
Asthma in the past 12 months	5.0	6.1	5.8	6.4	6.3	7.2	6.9	7.5	6.2

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey

† The survey questions for asthma changed in 1997; data before 1997 cannot be directly compared to data in 1997 and later, and are thus shown in this separate table. For 1980 to 1996, the asthma survey question was "Did <child's name> have asthma in the past 12 months?"

**Table H1c: Percentage of children ages 0 to 17 years with current asthma who reported an asthma attack in the past 12 months, 2001-2010**

2001-2008								
	2001	2002	2003	2004	2005	2006	2007	2008
Asthma attack prevalence among those with current asthma	61.7	64.9	62.7	61.2	56.7	56.1	54.8	57.2
2009-2010								
	2009	2010						
Asthma attack prevalence among those with current asthma	53.9	58.3						

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey

NOTE: Data represent responses to the following survey questions: "Has a doctor or other health professional ever told you that <child's name> had asthma?" and if yes, "During the past 12 months, has <child's name> had an episode of asthma or an asthma attack?" For 2001-2010 the survey included the question: "Does <child's name> still have asthma?" Responses are provided by a parent or other knowledgeable household adult.

**Table H2: Percentage of children ages 0 to 17 years reported to have current asthma by race/ethnicity and family income, 2007-2010**

Race / Ethnicity	All (n = 40,569)	< Poverty Level (n = 8,160)	≥Poverty Level (n = 32,409)	≥ Poverty Level (Detail)	
				100-200% of Poverty Level (n = 9,603)	≥ 200% of Poverty Level (n = 22,806)
<b>All Races/Ethnicities</b> (n = 40,569)	9.4	12.2	8.7	9.9	8.2
<b>White non-Hispanic</b> (n = 17,692)	8.2	10.6	7.9	9.6	7.5
<b>Black or African-American non-Hispanic</b> (n = 6,628)	16.0	18.8	14.4	15.0	13.9
<b>Asian non-Hispanic</b> (n = 2,255)	6.8	NA**	7.2	5.7*	7.7
<b>Hispanic</b> (n = 12,343)	7.9	8.7	7.5	7.3	7.8
<b>Mexican</b> (n = 8,114)	7.0	6.6	7.2	6.5	8.0
<b>Puerto Rican</b> (n = 1,116)	16.5	23.3	12.6	15.3	11.0
<b>All Other Races†</b> (n = 1,651)	12.4	15.5	11.4	14.8	9.7
<b>American Indian or Alaska Native non-Hispanic</b> (n = 219)	10.7	13.0*	NA**	NA**	NA**

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey

† The "All Other Races" category includes all other races not specified, together with those individuals who report more than one race.

\* The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate).

\*\* Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, is 40% or greater (RSE = standard error divided by the estimate).

**Table H2a: Percentage of children ages 0 to 17 years reported to have current asthma by age and sex, 2007-2010**

	Ages 0 to 17 years	Ages 0 to 5 years	Ages 6 to 10 years	Ages 11 to 17 years
All children	9.4	7.1	10.0	11.0
Boys	10.7	8.8	11.9	11.7
Girls	8.0	5.2	8.1	10.3

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey

**Table H3: Children's emergency room visits and hospitalizations for asthma and other respiratory causes, ages 0 to 17 years, 1996-2008**

1996-1999	1996	Rate per 10,000 children		1999
		1997	1998	
<b>Emergency Room Visits</b>				
Asthma and all other respiratory causes	636.4	631.5	654.7	619.9
All respiratory causes other than asthma	521.9	519.4	530.3	515.4
Upper respiratory	408.4	409.3	426.0	403.0
Pneumonia or influenza	56.3	52.0	58.0	58.8
Other lower respiratory	57.2	58.0	46.3	53.6
Asthma	114.4	112.1	124.4	104.5
<b>Hospitalizations</b>				
Asthma and all other respiratory causes	90.3	102.2	86.3	101.4
All respiratory causes other than asthma	59.9	69.1	61.4	72.5
Upper respiratory	28.9	37.2	27.6	39.5
Pneumonia or influenza	29.6	30.6	33.1	32.0
Other lower respiratory	1.4	1.3	0.7	1.0
Asthma	30.4	33.1	25.0	28.9

2000-2003	2000	Rate per 10,000 children		2003
		2001	2002	
<b>Emergency Room Visits</b>				
Asthma and all other respiratory causes	622.7	624.0	721.1	740.2
All respiratory causes other than asthma	521.8	532.3	621.3	644.8
Upper respiratory	428.1	426.8	494.4	499.1
Pneumonia or influenza	54.1	63.3	79.8	94.3
Other lower respiratory	39.7	42.2	47.1	51.5
Asthma	100.9	91.7	99.9	95.4
<b>Hospitalizations</b>				
Asthma and all other respiratory causes	84.6	85.0	86.7	89.6
All respiratory causes other than asthma	57.3	61.0	62.1	61.1
Upper respiratory	32.5	33.7	33.6	29.8
Pneumonia or influenza	23.9	26.6	27.8	30.2
Other lower respiratory	1.0	NA**	0.6	1.2
Asthma	27.2	24.0	24.6	28.4

2004-2007	2004	Rate per 10,000 children		
		2005	2006	2007
Emergency Room Visits				
Asthma and all other respiratory causes	528.8	639.8	584.3	625.1
All respiratory causes other than asthma	426.0	537.8	504.1	538.5
Upper respiratory	331.6	441.3	396.9	416.2
Pneumonia or influenza	56.9	62.6	61.1	87.6
Other lower respiratory	37.4	33.9	46.1	34.6
Asthma	102.8	102.1	80.2	86.6
Hospitalizations				
Asthma and all other respiratory causes	80.4	72.8	66.3	61.4
All respiratory causes other than asthma	55.8	52.5	47.3	42.3
Upper respiratory	30.5	25.8	23.5	23.1
Pneumonia or influenza	24.2	26.4	22.9	18.9
Other lower respiratory	1.1	0.4*	0.9	NA**
Asthma	24.6	20.3	18.9	19.1

		Rate per 10,000 children
2008	2008	
Emergency Room Visits		
Asthma and all other respiratory causes	619.1	
All respiratory causes other than asthma	516.6	
Upper respiratory	388.2	
Pneumonia or influenza	91.3	
Other lower respiratory	37.1	
Asthma	102.6	
Hospitalizations		
Asthma and all other respiratory causes	56.0	
All respiratory causes other than asthma	39.9	
Upper respiratory	19.1	
Pneumonia or influenza	20.3	
Other lower respiratory	NA**	
Asthma	16.2	

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey and National Hospital Discharge Survey

\* The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate).

\*\* Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, exceeds 40% (RSE = standard error divided by the estimate) or there are fewer than 30 sampled hospitalizations.

**Table H3a: Children's emergency room visits for asthma and other respiratory causes, by race/ethnicity, ages 0 to 17 years, 2005-2008**

	Rate per 10,000 children				
	2005	2006	2007	2008	2005-2008
<b>All Races/Ethnicities</b> ( <i>n</i> =5,366)	639.8	584.3	625.1	619.1	617.1
<b>White non-Hispanic</b> ( <i>n</i> =2,248)	484.8	442.3	518.8	500.9	486.6
<b>Black non-Hispanic</b> ( <i>n</i> =1,557)	1,242.7	1,276.0	1,183.5	1,258.0	1,240.1
<b>American Indian/Alaska Native non-Hispanic</b> ( <i>n</i> =33)	NA**	NA**	NA**	NA**	536.2
<b>Asian and Pacific Islander non-Hispanic</b> ( <i>n</i> =179)	409.4*	404.7	341.8*	333.1*	371.4
<b>Hispanic</b> ( <i>n</i> =1,331)	788.9	600.4	656.4	646.7	671.5

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey

\* The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate).

\*\* Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, exceeds 40% (RSE = standard error divided by the estimate) or there are fewer than 30 sampled emergency room visits.

**Table H3b: Children's emergency room visits for asthma and other respiratory causes, by age, 2005-2008**

	Rate per 10,000 children				
	2005	2006	2007	2008	2005-2008
<b>Ages 0 to 17 years</b>	639.8	584.3	625.1	619.1	617.1
<b>Age &lt; 1 year</b>	2,344.8	2,040.5	2,098.3	2,090.4	2,142.1
<b>Age 1 year</b>	1,884.3	1,696.4	1,823.1	1,727.5	1,782.3
<b>Age 2 years</b>	1,081.9	957.2	1,015.0	972.7	1,006.3
<b>Ages 3 to 5 years</b>	778.4	668.1	719.8	751.9	729.5
<b>Ages 6 to 10 years</b>	391.6	384.1	389.5	382.7	387.0
<b>Ages 11 to 15 years</b>	252.6	251.0	276.7	268.3	262.0
<b>Ages 16 to 17 years</b>	333.2	310.2	362.9	346.1	338.2

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Ambulatory Medical Care Survey

**Table H3c: Children's hospitalizations for asthma and other respiratory causes, by race,† ages 0 to 17 years, 2005-2008**

	Rate per 10,000 children				
	2005	2006	2007	2008	2005-2008
<b>All Races‡</b> ( <i>n</i> =18,088)	72.8	66.3	61.4	56.0	64.1
<b>White</b> ( <i>n</i> =9,213)	61.7	56.5	47.7	42.7	52.1
<b>Black</b> ( <i>n</i> =4,154)	94.1	91.6	78.0	72.3	84.0

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey

† Estimates for ethnicity not available. Race categories include children of Hispanic ethnicity.

‡ Includes races other than White and Black.

**Table H3d: Children's hospitalizations for asthma and other respiratory causes, by age, 2005-2008**

	Rate per 10,000 children				
	2005	2006	2007	2008	2005-2008
<b>Ages 0 to 17 years</b>	72.8	66.3	61.4	56.0	64.1
<b>Age &lt; 1 year</b>	477.2	399.6	364.8	344.3	395.5
<b>Age 1 year</b>	232.7	211.9	173.5	152.2	191.9
<b>Age 2 years</b>	115.9	112.2	117.9	89.7	108.8
<b>Ages 3 to 5 years</b>	70.1	68.2	53.9	53.3	61.3
<b>Ages 6 to 10 years</b>	33.0	28.8	29.0	27.6	29.6
<b>Ages 11 to 15 years</b>	15.3	13.8	17.2	13.1	14.9
<b>Ages 16 to 17 years</b>	8.7	15.0	13.9	14.1	12.9

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics, National Hospital Discharge Survey