

# Childhood Asthma

## Tennessee FastStats

### Asthma Prevalence<sup>1</sup>

Number of children aged 0-17 yrs. who have asthma		137,242
Percent of children aged 0-17 yrs. who have asthma		9.5%
By Gender:	Boys	10.7%
	Girls	8.2%
By Race:	Black Non-Hispanic	16.1%
	White Non-Hispanic	7.6%
By Age Group:	0-5 years	6.3%
	6-11 years	10.6%
	12-17 years	11.4%
By Percent of Federal Poverty Level:	0-99%	12.4%
	100-199%	11.0%
	200-399%	8.2%
	≥400%	6.6%

### Inpatient Hospitalizations for Asthma<sup>2</sup>

Number of discharges among 1-17 yr. olds with asthma as first-listed diagnosis		2,258
Hospitalization rate among 1-17 yr. olds for asthma as first-listed diagnosis ( <i>per 100,000</i> )		168
By Gender:	Boys	200
	Girls	135
By Race:	Black	329
	White	116
By Age Group:	1-4 years	350
	5-10 years	163
	11-17 years	72
Trend in hospitalization rate for asthma as first-listed diagnosis from 1997-2006 <sup>3</sup>		31% ↓

### Emergency Department Visits for Asthma<sup>2</sup>

Number of ED visits among 1-17 yr. olds with asthma as first-listed diagnosis		14,068
ED visit rate among 1-17 yr. olds for asthma as first-listed diagnosis ( <i>per 100,000</i> )		1,048
By Gender:	Boys	1,243
	Girls	842
By Race:	Black	2,347
	White	648
By Age Group:	1-4 years	1,767
	5-10 years	1,047
	11-17 years	652
Trend in ED visit rate for asthma as first-listed diagnosis from 1997-2006 <sup>3</sup>		25% ↑

## Childhood Asthma FastStats *cont.*

### Hospital Charges for Asthma<sup>2</sup>

Total in and outpatient charges for asthma as first-listed diagnosis among 1-17 yr. olds	\$29.1M
By Payer:	
TennCare	\$16.8M
Insurance	\$8.2M
Self-Pay	\$1.1M
Other/Unknown	\$3.0M
Average per visit inpatient charges for asthma among 1-17 yr. olds	\$6,392
Average per visit outpatient charges for asthma among 1-17 yr. olds	\$1,135

### Asthma Mortality<sup>4</sup>

Number of deaths due to an underlying diagnosis of asthma among 1-17 yr. olds	9
Mortality rate due to an underlying diagnosis of asthma among 1-17 yr. olds ( <i>per 1,000,000</i> )	6.5

### Regional Childhood Asthma Data<sup>2</sup>

<i>Region</i>	<i>Inpatient Hospitalization Rate (per 100,000)</i>	<i>ED Visit Rate (per 100,000)</i>
Davidson	132	1,373
East	154	905
Hamilton	66	992
Knox	196	1,201
Madison	146	1,090
Mid-Cumberland	99	639
Northeast	122	675
Northwest	200	828
Shelby	301	1,798
South Central	194	783
Southeast	95	678
Southwest	180	1,081
Sullivan	166	829
Upper-Cumberland	158	689

#### References:

Office of Policy, Planning and Assessment (2008). The Burden of Asthma in Tennessee. Tennessee Department of Health, Nashville, TN.  
Office of Policy, Planning and Assessment (2009). Childhood Asthma in Tennessee: 1997-2007. Tennessee Department of Health, Nashville, TN.

Additional childhood asthma data, along with detailed information on data sources and analysis methodology may be found in the above cited reports (available online at <http://hit.state.tn.us/reports.aspx>).

<sup>1</sup> Prevalence estimates are for 2007.

<sup>2</sup> Except for trend data and total charges (2006), inpatient hospitalization, ED visit and per visit charges data are 2002-2006 annual averages.

<sup>3</sup> Inpatient hospitalizations decreased from 221 to 152/100,000 (35% decrease); ED visits increased from 819 to 1,020/100,000 (25% increase).

<sup>4</sup> Mortality data are for 2006.