

St. Louis BRFSS Region Metro



Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, approximately 160,000 adults and over 71,000 children younger than age 18 in the St. Louis Metro region are currently living with asthma.
- Current asthma prevalence among adults living in the St. Louis Metro region was 10.1 percent (95% confidence interval [CI] 6.6 - 13.6), compared to 9.5 percent (95% CI 8.1 - 10.9) for adults in the entire state.
- Current asthma prevalence among children was higher at 14.0 percent (95% CI 9.0 - 18.9) in the St. Louis Metro Region, compared to 10.1 percent (95% CI 7.8 - 12.4) for all children in Missouri, but this difference was not statistically significant.

ASTHMA EMERGENCY DEPARTMENT VISITS

There were 12,955 asthma emergency department (ED) visits in the St. Louis Metro region in 2008.

- The age-adjusted asthma ED visit rate was 6.4 per 1,000 persons, which was significantly higher than the state rate (5.2 per 1,000). See table for county and city ED rates.
- This region accounted for 43.6 percent of Missouri's total asthma ED visits.
- Children accounted for 51.6 percent of all asthma ED visits in this region, compared to 42.6 percent for the state as a whole.
- African-Americans made up 19.6 percent of the region's population, but accounted for 63.0 percent of all asthma ED visits in this region.
- ED visit rates were similar among females and males (6.4 [95% CI 6.3 - 6.6] versus 6.3 [95% CI 6.2 - 6.5] per 1,000).

ASTHMA HOSPITALIZATION RATES

There were 3,592 asthma hospitalizations in the St. Louis Metro region in 2008.

- The age-adjusted asthma hospitalization rate was 17.3 per 10,000, which was significantly higher than the state rate. See table for county and city hospitalization rates.
- Children accounted for 39.2 percent of all asthma hospitalizations in this region, compared to 42.6 percent for the state as a whole.
- African-Americans made up 19.6 percent of the region's population, but accounted for 57.2 percent of all asthma hospitalizations in the region.
- Asthma led to 10,359 days of hospital care with an average of 2.9 days per hospitalization.

- Charges totaled \$42.7 million for asthma hospitalizations.

DATA SOURCES

PREVALENCE DATA: Missouri Department of Health and Senior Services. Missouri Behavioral Risk Factor Surveillance System, 2008 and 2009. Available at: <http://health.mo.gov/data/brfss/index.php>

EMERGENCY DEPARTMENT AND HOSPITALIZATION DATA: Missouri Department of Health and Senior Services, Bureau of Health Informatics. Missouri Information for Community Assessment (MICA). Available at: <http://health.mo.gov/data/mica/EmergencyRoomMICA>

POPULATION DATA: Missouri Census Data Center. 2008 Population Estimates for Missouri and the United States. <http://mcdc2.missouri.edu/trends/estimates.shtml> and Missouri Department of Health and Senior Services. Population MICA. Available at: <http://health.mo.gov/data/mica/PopulationMICA>

Age-adjusted asthma emergency department visits and hospitalization rates by county, St. Louis Metro region, Missouri, 2008

County	Emergency Department Visits		Hospitalizations	
	Rate	95% CI	Rate	95% CI
Franklin	3.8	3.5 - 4.3	9.4	7.5 - 11.5
Jefferson	3.4	3.2 - 3.7	9.8	8.5 - 11.2
Lincoln	4.9	4.3 - 5.5	6.9	4.8 - 9.6
St. Charles	3.2	3.0 - 3.4	8.3	7.4 - 9.4
St. Louis Co.	6.7*	6.5 - 6.8	18.0*	17.2 - 18.9
St. Louis City	12.2*	11.8 - 12.6	34.2*	32.3 - 36.3
Warren	3.4	2.8 - 4.2	9.3	6.3 - 13.4
Region	6.4*	6.3 - 6.5	17.3*	16.7 - 17.8
State	5.2	5.1 - 5.2	13.8	13.5 - 14.1

*Rate significantly higher than the state rate.

Note: Emergency department rates have been age adjusted based on the U.S. 2000 standard population; county and regional data are reported by patient residence.