

Kansas City

BRFSS Region

Metro



Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, approximately 82,000 adults and over 31,000 children younger than age 18 in the Kansas City Metro region are currently living with asthma.
- Current asthma prevalence among adults living in the Kansas City Metro region was 9.1 percent (95% confidence interval [CI] 6.8 - 11.4), compared to 9.5 percent (95% CI 8.1 - 10.9) for adults in the entire state.
- Current asthma prevalence among children was 10.5 percent (95% CI 5.8 - 15.1) in the Kansas City Metro region, compared to 10.1 percent (95% CI 7.8 - 12.4) for all children in Missouri.

ASTHMA EMERGENCY DEPARTMENT VISITS

There were 6,882 asthma emergency department (ED) visits in the Kansas City Metro region in 2008.

- The age-adjusted asthma ED visit rate was 5.9 per 1,000 persons, which was significantly higher than the state rate (5.2 per 1,000). See table for ED visit rates by county.
- This region accounted for 23.2 percent of Missouri's total asthma ED visits.
- Children accounted for 40.0 percent of all asthma ED visits in this region, compared to 42.6 percent for the state as a whole
- African-Americans made up 14.9 percent of the region's population, but accounted for 47.4 percent of all asthma ED visits in the region.
- ED visit rates were significantly higher among females than males (6.5 [95% CI 6.3 - 6.7] versus 5.3 [95% CI 5.1 - 5.4] per 1,000).

ASTHMA HOSPITALIZATION RATES

There were 1,788 asthma hospitalizations in the Kansas City Metro region in 2008.

- The age-adjusted asthma hospitalization rate was 14.9 per 10,000, which was higher than the state rate (13.8 per 10,000). See table for hospitalization rates by county.
- Children accounted for 35.8 percent of all asthma hospitalizations in this region, compared to 34.3 percent for the state as a whole.
- African-Americans made up 14.9 percent of the region's population, but accounted for 40.8 percent of all asthma hospitalizations in the region.

- Asthma led to 5,421 days of hospital care with an average of 3.0 days per hospitalization.
- Charges totaled \$21.1 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. Available at: <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, Kansas City Metro region, Missouri, 2008

County	Emergency Department Visits		Hospitalizations	
	Rate	95% CI	Rate per 10,000	95% CI
Cass	3.7	3.4 - 4.1	9.4	7.6 - 11.6
Clay	3.9	3.6 - 4.2	12.8	11.3 - 14.4
Clinton	3.6	2.8 - 4.6	8.9	5.4 - 14.0
Jackson	7.5*	7.3 - 7.7	17.7*	16.7 - 18.7
Lafayette	2.7	2.1 - 3.3	12.2	8.6 - 16.7
Platte	2.6	2.3 - 3.0	8.2	6.4 - 10.4
Ray	4.0	3.2 - 4.9	11.9	7.9 - 17.0
Region	5.9*	5.7 - 6.0	14.9*	14.2 - 15.6
State	5.2	5.1 - 5.2	13.8	13.5 - 14.1

*Rate significantly higher than the state rate.

-- Fewer than 20 visits; rate considered unreliable and confidence interval not calculated.

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.