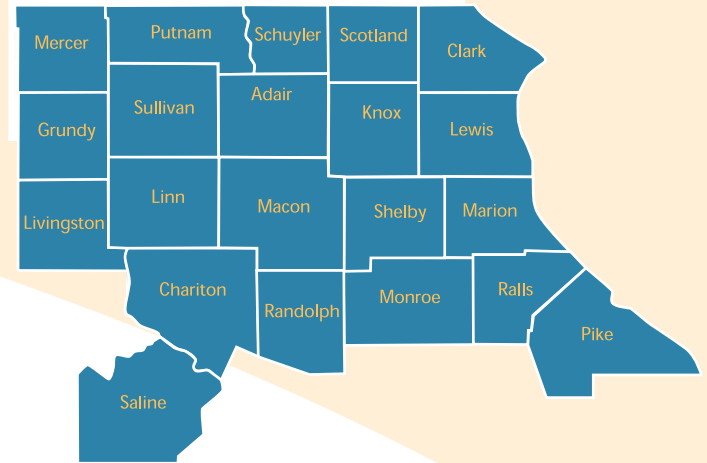


Northeast

BRFSS Region



Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, approximately 22,000 adults and 1,800 children younger than age 18 in the northeast region are currently living with asthma.
- Although not significantly higher, the current asthma prevalence among adults living in the northeast region was 11.7 percent (96% confidence interval [CI] 5.8 - 17.7), compared to 9.5 percent (95% CI 8.1 - 10.9) for adults in the entire state.
- Current asthma prevalence was significantly lower among children at 3.2 percent (95% CI 0.5 - 5.9) in the northeast region, compared to 10.1 percent (95% CI 7.8 - 12.4) for all children in Missouri.

ASTHMA EMERGENCY DEPARTMENT VISITS

There were 803 emergency department (ED) visits in the northeast region in 2008.

- The age-adjusted asthma ED visit rate was 3.4 per 1,000 persons, which was significantly lower than the state rate (5.2 per 1,000). See table for ED visit rates by county.
- Children age 17 and younger accounted for 33.3 percent of all asthma ED visits in this region, compared to 42.6 percent for the state as a whole.
- African-Americans made up 3.4 percent of the region's population, but accounted for 6.5 percent of all asthma ED visits.
- ED visit rates were significantly higher among females than males (4.3 [95% CI 3.9 - 4.7] versus 2.6 [95% CI 2.3 - 2.9] per 1,000).

ASTHMA HOSPITALIZATION RATES

There were 296 hospitalizations in the northeast region in 2008.

- The age-adjusted asthma hospitalization rate was 11.4 per 10,000 (95% CI 10.1 - 12.8), which was significantly lower from the state rate (13.8 per 10,000; 95% CI 13.5 - 14.1).
- This region accounted for 3.6 percent of Missouri's total asthma hospitalizations.
- Children accounted for 25.3 percent of all asthma hospitalizations in this region, compared to 42.6 percent for the state as a whole.

- African-Americans made up only 3.4 percent of the region's population, but accounted for 6.1 percent of all asthma hospitalizations.
- Asthma led to 934 days of hospital care with an average of 3.2 days per hospitalization.
- Charges totaled \$2.9 million for asthma hospitalizations.

DATA SOURCES

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

EMERGENCY DEPARTMENT AND HOSPITALIZATION DATA: Missouri Missouri Department of Health and Senior Services, Bureau of Health Informatics. Missouri Information for Community Assessment (MICA). Accessed February, 2011. <http://www.dhss.mo.gov/data/mica/mica/er.php>

POPULATION DATA: Missouri Census Data Center. 2008 Population Estimates for Missouri and the United States. <http://mcdc2.missouri.edu/>

Age-adjusted asthma emergency department visit rates by county, northeast region, Missouri, 2008

County	Rate per		County	Rate per	
	1,000	95% CI		1,000	95% CI
Adair	2.1	1.5 - 2.9	Pike	3.4	2.6 - 4.3
Chariton	--	--	Putnam	--	--
Clark	--	--	Ralls	2.4	1.4 - 3.7
Grundy	6.1	4.6 - 8.0	Randolph	3.0	2.4 - 3.8
Knox	--	--	Saline	4.7	3.8 - 5.7
Lewis	--	--	Schuyler	--	--
Linn	4.2	3.1 - 5.6	Scotland	--	--
Livingston	7.7*	6.3 - 9.4	Shelby	--	--
Macon	2.4	1.6 - 3.4	Sullivan	6.1	4.3 - 8.4
Marion	4.4	3.7 - 5.3	Region	3.4	3.2 - 3.7
Mercer	--	--	State	5.2	5.1 - 5.2
Monroe	2.8	1.7 - 4.2			

*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.