

Central BRFSS Region

Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, approximately 46,000 adults and 8,900 children younger than age 18 are currently living with asthma in the central region.
- Current asthma prevalence among adults living in the central region was 8.5 percent (95% confidence interval [CI] 4.8 - 12.3), compared to 9.5 percent (95% CI 8.1 - 10.9) for all adults in Missouri.
- Current asthma prevalence among children was 5.5 percent (95% 1.7 - 9.3), compared to 10.1 percent (95% CI 7.8 - 12.4) for all children living in Missouri.

ASTHMA EMERGENCY DEPARTMENT VISITS

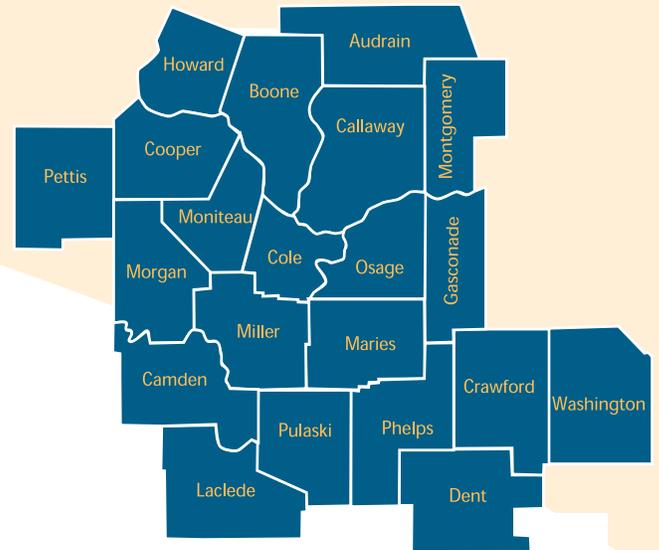
There were 2,497 emergency department (ED) visits in the central region in 2008.

- The age-adjusted asthma ED visit rate was 3.7 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 17 and younger accounted for 34.1 percent of all asthma ED visits in this region compared to 42.6 percent for the state as a whole.
- African-Americans made up 5.6 percent of the region's total population, but accounted for 20.1 percent of all asthma ED visits. Boone, Cole and Pulaski counties have 70 percent of the total African-American population within the region.
- ED visit rates were significantly higher among females (4.3%, 95% CI 4.0 - 4.5) than males (3.1%, 95% CI 2.9 - 3.3).

ASTHMA HOSPITALIZATIONS

There were 740 hospitalizations in the central region in 2008.

- The age-adjusted asthma hospitalization rate was 10.5 per 10,000 (95% CI 9.8 - 11.3), which was significantly lower than the state rate (13.8 per 10,000; 95% CI 13.5 - 14.1).
- This region accounted for 9.0 percent of Missouri's total asthma hospitalizations.
- Children accounted for 23.0 percent of all asthma hospitalizations in this region compared to 34.3 percent for the state as a whole.
- African-Americans made up 5.6 percent of the region's population, but accounted for 14.9 percent of the asthma hospitalizations in the region.
- Asthma led to 2,740 days of hospital care with an average of 3.7 days per hospitalization.



- Charges totaled nearly \$9.6 million for asthma hospitalizations for individuals living in this region.

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 visit rates by county, central region, Missouri, 2008

County ^	Rate per		County ^	Rate per	
	1,000	95% CI		1,000	95% CI
Audrain	5.1	4.3 - 6.1	Miller	3.7	3.0 - 4.6
Boone	4.2	3.9 - 4.6	Moniteau	2.4	1.6 - 3.3
Callaway	4.0	3.5 - 4.7	Montgomery	3.2	2.2 - 4.6
Camden	5.2	4.4 - 6.0	Morgan	2.6	1.9 - 3.5
Cole	4.5	4.0 - 5.0	Osage	--	--
Cooper	5.4	4.3 - 6.6	Pettis	4.4	3.8 - 5.1
Crawford	3.9	3.2 - 4.9	Phelps	2.7	2.2 - 3.3
Dent	6.3	5.0 - 7.8	Pulaski	1.4	1.1 - 1.9
Gasconade	1.9	1.3 - 2.9	Washington	3.8	3.1 - 4.7
Howard	2.8	1.8 - 4.2	Region	3.7	3.5 - 3.8
Laclede	3.0	2.4 - 3.6	State	5.2	5.1 - 5.2
Maries	--	--			

^No county rate significantly higher than the state rate within this region.

-- 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.