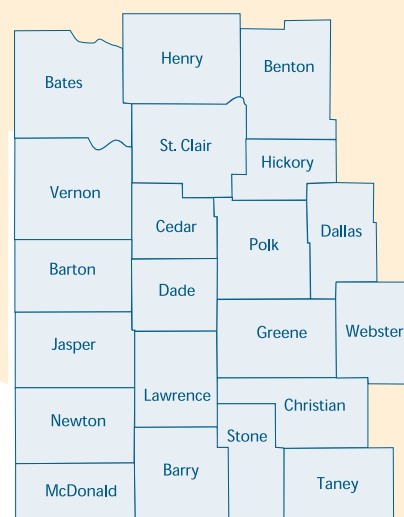


Southwest

BRFSS Region



Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, nearly 71,000 adults and over 11,400 children younger than age 18 in the southwest region are currently living with asthma.
- Current asthma prevalence among adults living in the southwest region was 10.3 percent (95% confidence interval [CI] 6.9 - 13.8), compared to 9.5 percent (95% CI 8.1 - 10.9) for adults in the entire state, but this difference was not statistically significant.
- Current asthma prevalence among children was lower at 5.3 percent (95% CI 0.8 - 9.8), compared to 10.1 percent (95% CI 7.8 - 12.4) for all children in Missouri. This difference was not statistically significant.

ASTHMA EMERGENCY DEPARTMENT VISITS

There were 3,877 emergency department (ED) visits in the southwest region in 2008.

- The age-adjusted asthma ED visit rate was 4.5 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 accounted for 29.8 percent of all asthma ED visits in this region, compared to 42.6 percent for the state as a whole.
- African-Americans made up 1.5 percent of the region's population, but accounted for 4.7 percent of all asthma ED visits in this region.
- ED visit rates were significantly higher among females than males (4.5 [95% CI 4.4 - 4.6] versus 3.8 [95% CI 3.6 - 4.0] per 1,000).

ASTHMA HOSPITALIZATION RATES

There were 744 hospitalizations in the southwest region in 2008.

- The age-adjusted asthma hospitalization rate was significantly lower in the southwest region (8.1 per 10,000; 95% CI 7.5 - 8.7), compared to the state rate (13.8 per 10,000; 95% CI 13.5 - 14.1).
- Children accounted for 29.8 percent of all asthma hospitalizations in this region, compared to 34.3 percent for the state as a whole.
- African-Americans made up 1.5 percent of the region's population, but accounted for 2.3 percent of all asthma hospitalizations in the region.

- Asthma led to 2,530 days of hospital care with an average of 3.4 days per hospitalization.
- Charges totaled \$8.1 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.

<http://mcdc2.missouri.edu/trends/estimates.shtml>
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, southwest region, Missouri, 2008

County	Rate per		County	Rate per	
	1,000	95% CI		1,000	95% CI
Barry	5.2	4.4 - 6.0	Lawrence	5.6	4.8 - 6.4
Barton	5.0	3.7 - 6.4	McDonald	4.2	3.4 - 5.1
Bates	3.0	2.1 - 4.0	Newton	6.6*	5.9 - 7.3
Benton	3.4	2.5 - 4.6	Polk	2.9	2.3 - 3.6
Cedar	5.5	4.2 - 6.9	St. Clair	4.8	3.3 - 6.7
Christian	2.2	1.9 - 2.5	Stone	2.7	2.1 - 3.5
Dade	--	--	Taney	3.1	2.6 - 3.7
Dallas	2.2	1.5 - 3.1	Vernon	10.4*	8.9 - 12.0
Greene	4.3	4.0 - 4.5	Webster	1.9	1.5 - 2.4
Henry	5.9	4.9 - 7.1	Region	4.5	4.4 - 4.6
Hickory	--	--	State	5.2	5.1 - 5.2
Jasper	7.0*	6.5 - 7.5			

*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.