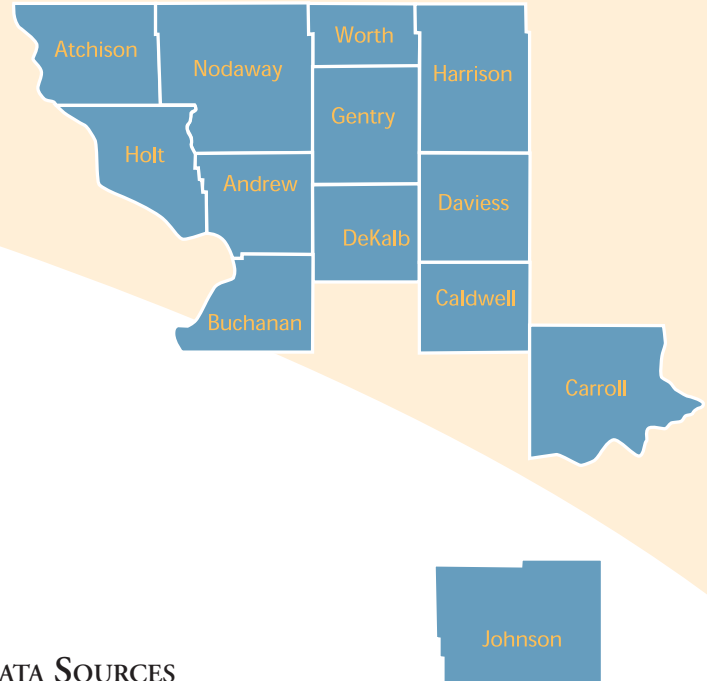


Northwest

BRFSS Region



Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, more than 16,000 adults and about 4,600 children younger than age 18 in the northwest region are currently living with asthma.
- Current asthma prevalence among adults living in the northwest region was 8.7 percent (95% confidence interval [CI] 5.8 - 11.6), compared to 9.5 percent (95% CI 8.1 - 10.9) for adults in the entire state.
- Current asthma prevalence among children was 8.3 percent (95% CI 3.6 - 13.0), compared to 10.1 percent (95% CI 7.8 - 12.4) for all children living in Missouri.

ASTHMA EMERGENCY DEPARTMENT VISITS

There were 926 emergency department (ED) visits in the northwest region in 2008.

- The age-adjusted asthma ED visit rate was 3.9 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 32.1 percent of all asthma ED visits in this region, compared to 42.6 percent for the state as a whole.
- African-Americans made up 3.4 percent of the region's population, but accounted for 8.3 percent of all asthma ED visits
- ED visit rates were significantly higher among females than males (4.8 [95% CI 4.4 - 5.2] versus 3.1 [95% CI 2.8 - 3.5] per 1,000).

ASTHMA HOSPITALIZATION RATES

There were 347 hospitalizations in the northwest region in 2008.

- The age-adjusted asthma hospitalization rate was 14.0 per 10,000 (95% CI 12.6 - 15.6), which was not significantly different than the state rate (13.8 per 10,000; 95% CI 13.5 - 14.1).
- Children accounted for 24.2 percent of all asthma hospitalizations in this region, compared to 34.3 percent for the state as a whole.
- African-Americans made up 3.4 percent of the region's population and accounted for 4.6 percent of all asthma hospitalizations.
- Asthma led to 1,132 days of hospital care with an average of 3.3 days per hospitalization.
- Charges totaled \$3.8 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 visit rates by county, northwest region, Missouri, 2008

County	Rate per		County	Rate per	
	1,000	95% CI		1,000	95% CI
Andrew	1.5	0.9 - 2.3	Harrison	7.1 *	5.3 - 9.3
Atchison	--	--	Holt	--	--
Buchanan	4.6	4.1 - 5.1	Johnson	3.4	2.9 - 4.0
Caldwell	4.7	3.3 - 6.5	Nodaway	3.5	2.6 - 4.4
Carroll	3.5	2.4 - 5.1	Worth	--	--
Daviess	3.7	2.4 - 5.4	Region	3.9	3.7 - 4.2
DeKalb	2.0	1.2 - 3.1	State	5.2	5.1 - 5.2
Gentry	9.4 *	6.9 - 12.5			

*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.