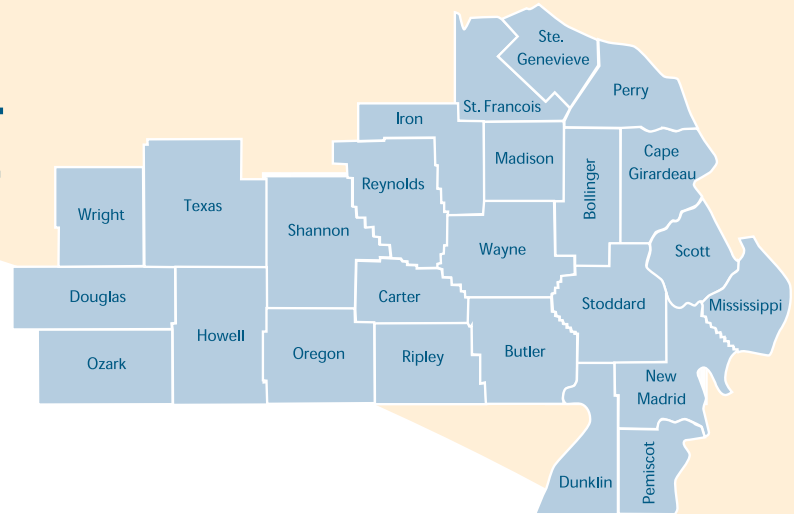


Southeast

BRFSS Region



Asthma Fact Sheet: 2008-2009

PREVALENCE

- Based on prevalence estimates, nearly 40,000 adults and 15,200 children younger than age 18 in the southeast region are currently living with asthma.
- Current asthma prevalence among adults living in the southeast region (9.5% [95% confidence interval (CI) 6.4 - 12.6]) mirrors the state prevalence (9.5% [95% CI 8.1 - 10.9]).
- Current asthma prevalence among children was higher at 11.4 percent (95% CI 5.3 - 17.5), compared to 10.1 percent (95% CI 7.8 - 12.4) for the entire state, but this difference was not significant.

ASTHMA EMERGENCY DEPARTMENT VISITS

There were 1,750 emergency department (ED) visits in the southeast region in 2008.

- The age-adjusted asthma ED visit rate was 3.3 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 36.1 percent of all asthma ED visits in this region, compared to 42.6 percent for the state as a whole
- African-Americans made up 5.1 percent of the region's population, but accounted for 19.4 percent of all ED visits within this region.
- ED visit rates were significantly higher among females than males (3.8 [95% CI 3.6 - 4.1] versus 2.8 [95% CI 2.6 - 3.0] per 1,000).

ASTHMA HOSPITALIZATION RATES

There were 732 hospitalizations in the southeast region in 2008.

- The age-adjusted asthma hospitalization rate was 12.8 per 10,000 (95% CI 11.9 - 13.8), which was not significantly different than the state rate (13.8 per 10,000; 95% CI 13.5 - 14.1).
- Children accounted for 34.0 percent of all asthma hospitalizations in this region, compared to 34.3 percent for the state as a whole.
- African-Americans made up 5.1 percent of the region's population, but accounted for 15.3 percent of all asthma hospitalizations within this region.
- Asthma led to 2,159 days of hospital care with an average of 2.9 days per hospitalization.

- Charges totaled \$7.9 million for asthma hospitalizations.

DATA SOURCES

PREVALENCE DATA: Missouri Department of Health and Senior Services. Missouri Behavioral Risk Factor Surveillance System, 2008 and 2009. 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, southeast region, Missouri, 2008

County	Rate per		County	Rate per	
	1,000	95% CI		1,000	95% CI
Bollinger	2.4	1.6 - 3.5	Perry	4.9	3.9 - 6.1
Butler	2.6	2.1 - 3.1	Reynolds	4.5	2.8 - 6.8
Cape Girardeau	2.2	1.9 - 2.6	Ripley	3.5	2.5 - 4.7
Carter	--	--	St. Francois	4.1	3.6 - 4.7
Douglas	--	--	Ste. Genevieve	2.8	2.0 - 3.8
Dunklin	4.6	3.8 - 5.4	Scott	4.6	3.9 - 5.3
Howell	3.4	2.8 - 4.1	Shannon	2.9	1.8 - 4.4
Iron	--	--	Stoddard	2.3	1.8 - 2.9
Madison	5.7	4.4 - 7.2	Texas	2.4	1.8 - 3.1
Mississippi	4.7	3.6 - 6.1	Wayne	2.6	1.7 - 3.8
New Madrid	4.1	3.2 - 5.2	Wright	2.1	1.4 - 2.9
Oregon	--	--	Region	3.3	3.2 - 3.5
Ozark	--	--	State	5.2	5.1 - 5.2
Pemiscot	7.7*	6.5 - 9.1			

*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.