

JACKSON COUNTY ASTHMA STATISTICS

- 2,829 children less than 18 years currently have asthma. [1]
- 19,022 adults 18 years and older currently have asthma. [2]
- The prevalence of persistent asthma among children (≤ 18 years) enrolled in Medicaid (continuously enrolled with full coverage and no other insurance) is 5.5%. (617 children) [3]
- There are about 288 hospitalizations each year in Jackson County. The rate of asthma hospitalization is 17.7 hospital stays per 10,000 people. [4]
- There are about 2 deaths due to asthma in Jackson County each year. [5]
- For Jackson County, the total cost of asthma is \$6,239,000 per year, with indirect costs of \$2,698,000 and direct costs of \$3,541,000. [6]

Table 1. Average Number and Rates of Hospitalization due to Asthma, Jackson County and Michigan, All Ages, 2004-2006

Group	Average Number of Hospitalizations per Year in Jackson County	Rate per 10,000 People in Jackson County	Rate per 10,000 People in Michigan
Sex*			
Male	118	14.8	13.6
Female	171	20.7	19.3
Race*			
White	236	15.8	11.1
Black	46	31.7	47.5
Age			
0 to 17	100	25.8	22.1
18 and Older	188	14.9	14.1
Total	288	17.7	16.6

*Rates are age-adjusted to the 2000 US population. 2005 Michigan population estimates from the Michigan Department of Community Health, Division for Vital Records and Health Statistics are used in calculations. For records missing data on race, race was assigned based on the hospitalized population within that data year.

Table 2. Characteristics of Asthma Management for Children Enrolled in Medicaid¹ with Persistent Asthma², Jackson County and Michigan, Age ≤18 Years, 2005

Characteristic of Asthma Management	County Percent	Michigan Percent
≥ Office Visit for Asthma ³	56.4	49.0%
≥ Emergency Department Visit for Asthma ⁴	18.8	33.8%
≥ Quick Relief Medications ⁵	2.5	2.6%
≥ Long Term Control Medication ⁶	67.3	69.7%

1. Children enrolled in Medicaid are restricted to those who are continuously enrolled in Medicaid with full coverage and no other insurance.

2. Persistent asthma is defined according to the Health Plan and Employer Data and Information Set (HEDIS®) definition from the National Committee for Quality Assurance (NCQA). The criteria for this definition are: (1) ≥4 asthma medication dispensing events OR (2) ≥1 emergency department visits for asthma OR (3) ≥1 hospitalization for asthma OR (4) ≥4 outpatient visits for asthma and ≥2 asthma medication dispensing events. In 2005, the prevalence of persistent asthma for children enrolled in Medicaid who live in Jackson County was 5.5%.

3. The proportion of children with persistent asthma in Medicaid with one or more annual asthma office visits.

4. The proportion of children with persistent asthma in Medicaid with one or more annual asthma emergency department visits.

5. The proportion of children with persistent asthma in Medicaid who have filled thirteen or more prescriptions for quick relief medications in a year - an indicator of overuse of this medication.

6. The proportion of children with persistent asthma in Medicaid who have filled one or more prescriptions for a long-term controller medication in a year.

Data Sources:

1. Michigan Behavioral Risk Factor Survey, Statewide Estimate of Prevalence, 2006.
2. Michigan Behavioral Risk Factor Survey, Regional Estimates of Prevalence, 2005.
3. Michigan Data Warehouse, 2005.
4. Michigan Inpatient Database, 2004-2006.
5. Michigan Death File, 2002-2006.
6. Asthma and Allergy Foundation of America.

Source: <http://www.getastmahelp.org/stats/CountyStatistics.asp?couID=38> 5/6/2009