

ASTHMA IN INDIANA



CHRONIC RESPIRATORY DISEASE SECTION

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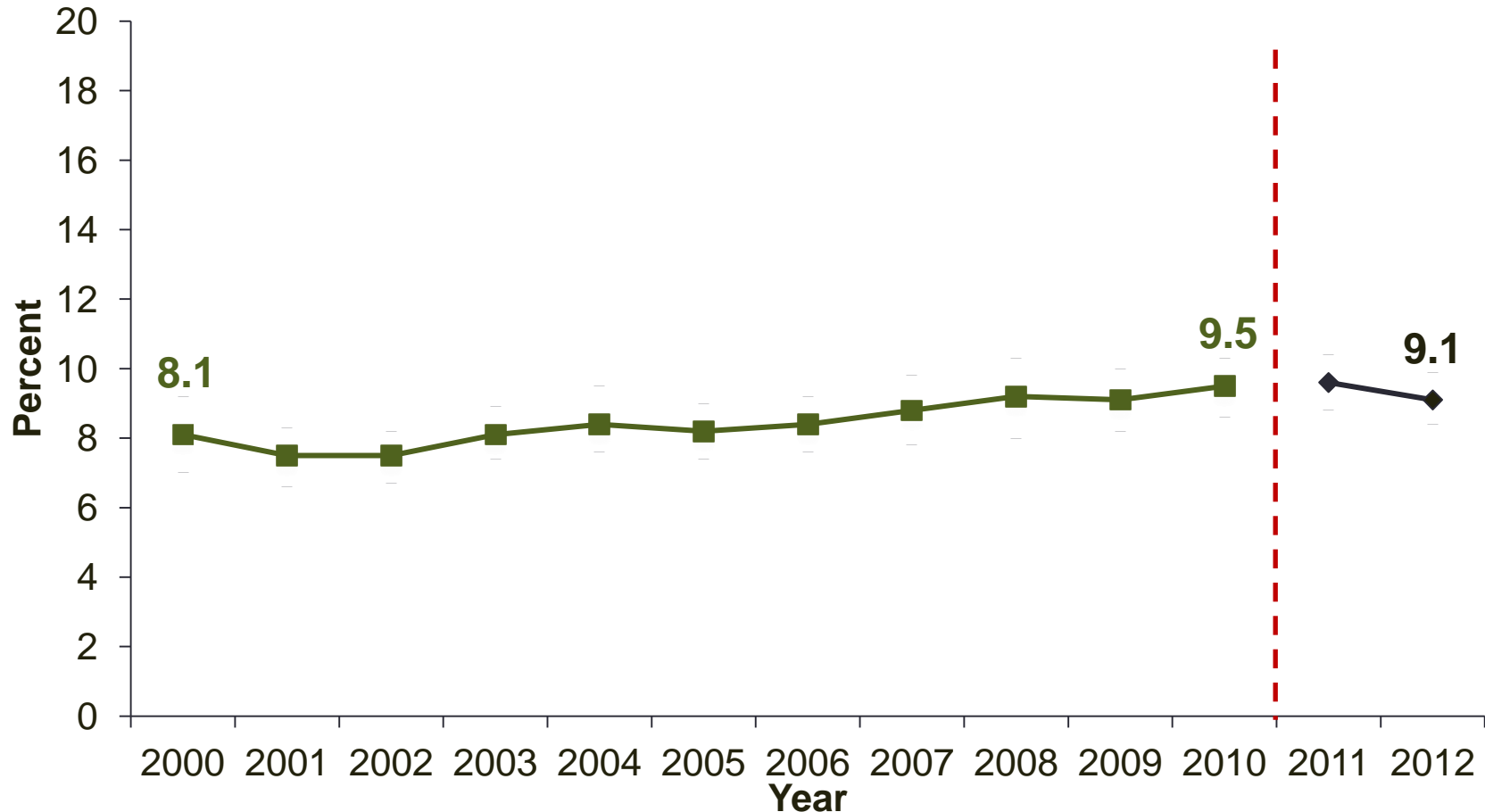
Overview

- ❑ **Approximately 1 in 11 (9.1%) Indiana adults (18+ years) are currently diagnosed with asthma.**
- ❑ **Adult females in Indiana are more likely than males to have asthma.**
- ❑ **Approximately 1 in 10 (9.5%) Indiana children (ages 0-17) are currently diagnosed with asthma.**
- ❑ **Black children have a significantly higher prevalence rate than white children.**
- ❑ **An asthma diagnosis is more likely in adults with an annual household income < \$15,000 compared to household incomes ≥ \$15,000.**

Most Common Data Sources

- ❑ **Indiana Behavioral Risk Factor Surveillance System (BRFSS)**
 - www.in.gov/isdh/22860.htm
- ❑ **Centers for Disease Control and Prevention (CDC) BRFSS**
 - www.cdc.gov/brfss
- ❑ **BRFSS Asthma Call-Back Survey (ACBS)**
 - <http://www.cdc.gov/brfss/acbs/index.htm>
- ❑ **Indiana Hospital Discharge Database**
 - <http://www.state.in.us/isdh/20624.htm>
- ❑ **Indiana Vital Records**
 - Information: www.in.gov/isdh/23574.htm
 - Data: www.in.gov/isdh/19096.htm

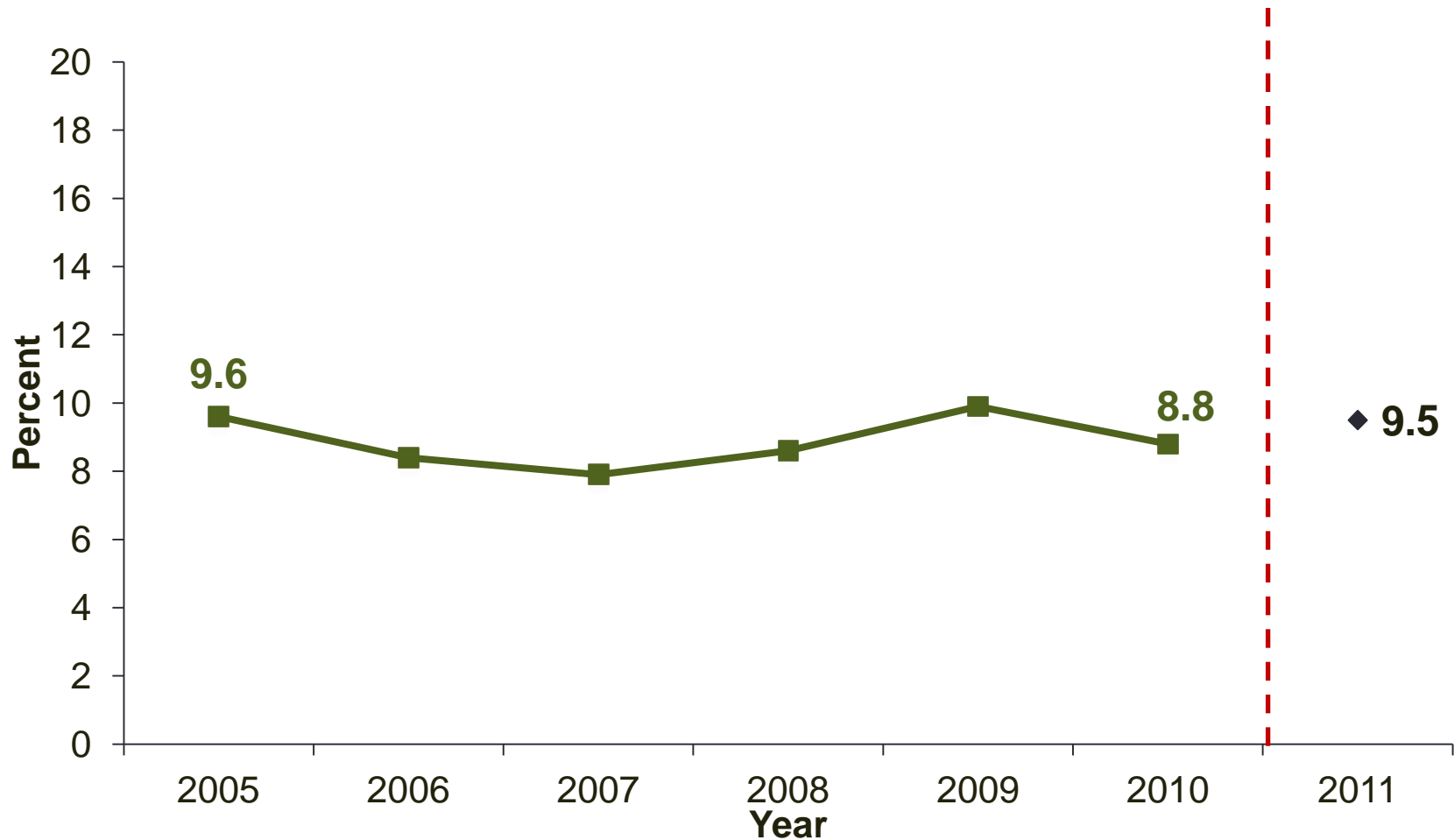
Prevalence of current asthma among adults (18+ years), Indiana, 2000–2010, 2011–2012*



*Starting in 2011 prevalence estimates were determined using a new, more precise methodology, including the addition of cell phone respondents and new weighting techniques; therefore, estimates made in 2011 or later should not be compared to earlier prevalence estimates.

Source: [CDC](#) and [ISDH DAT](#). (2013). Behavioral Risk Factor Surveillance System Prevalence Data, 2000–2012.

Prevalence of current asthma among children (0-17 years), Indiana, 2005–2010, 2011*



*The 2011 prevalence estimate was determined using a new, more precise methodology, including the addition of cell phone respondents and new weighting techniques; therefore, the 2011 estimate should not be compared to earlier prevalence estimates.

Source: [CDC](#) and [ISDH DAT](#). (2011). *Behavioral Risk Factor Surveillance System Prevalence Data, 2000-2011*.

Asthma self-management education among Hoosiers with current asthma

Has a health care professional . . .	Adults ¹	Children ²
shown you how to use an inhaler?	93.7%	95.3%
taught you what to do during an asthma episode or attack?	78.4%	85.4%
watched you use an inhaler?	76.8%	82.7%
taught you how to recognize early signs or symptoms of an asthma episode?	67.1%	81.8%
taught you how to use a peak flow meter to adjust daily medications?	47.0%	39.7%
given you an asthma action plan?	35.5%	47.7%
Have you . . .		
ever taken a course to manage asthma	8.8%	18.3%

1. [CDC](#) and [ISDH DAT](#). (2013). *Behavioral Risk Factor Surveillance System Adult Asthma Call-back Survey, 2012*.

2. [CDC](#) and [ISDH DAT](#). (2012). *Behavioral Risk Factor Surveillance System Child Multi-year Asthma Call-back Survey, 2006-2010*.

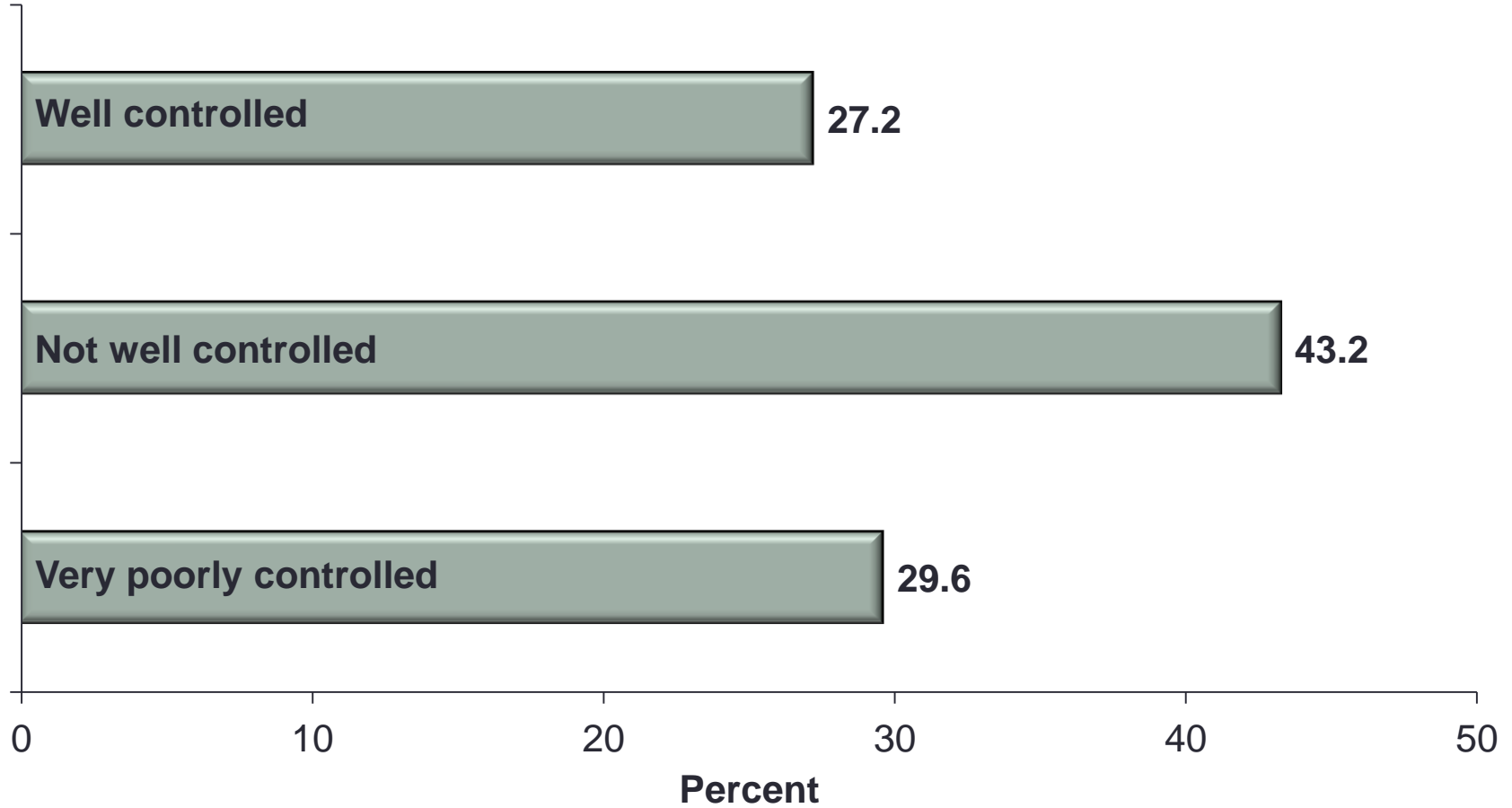
Barriers facing Hoosiers with current asthma

	Adults ¹	Children ²
Uninsured	16.5%	4.1%
Unable to see primary care doctor for asthma because of the cost	15.9%	6.9%
Unable to see specialist because of the cost	9.8%	5.0%
Unable to buy medications because of the cost	30.6%	11.9%
Missed at least 1 day of work/school in the past 12 months due to asthma	33.6%	44.7%
Limited usual activities 'a lot' within the past 12 months due to asthma	9.6%	4.2%
Had no asthma symptom-free days during the past 2 weeks	29.9%	11.6%

1. [CDC](#) and [ISDH DAT](#). (2013). *Behavioral Risk Factor Surveillance System Adult Asthma Call-back Survey, 2012*.

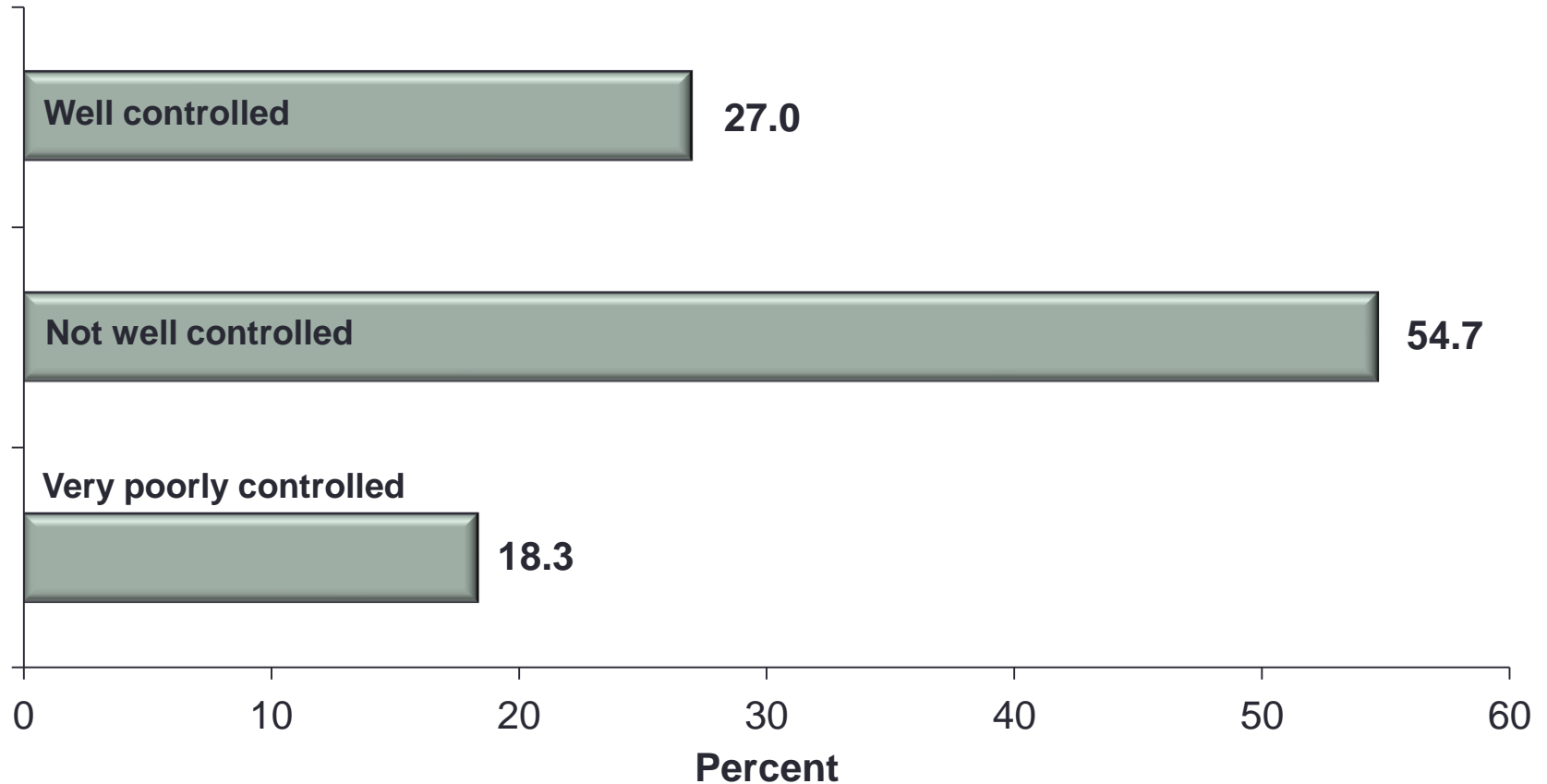
2. [CDC](#) and [ISDH DAT](#). (2012). *Behavioral Risk Factor Surveillance System Child Multi-year Asthma Call-back Survey, 2006-2010*.

Asthma control among adults (18+ years), Indiana, 2011



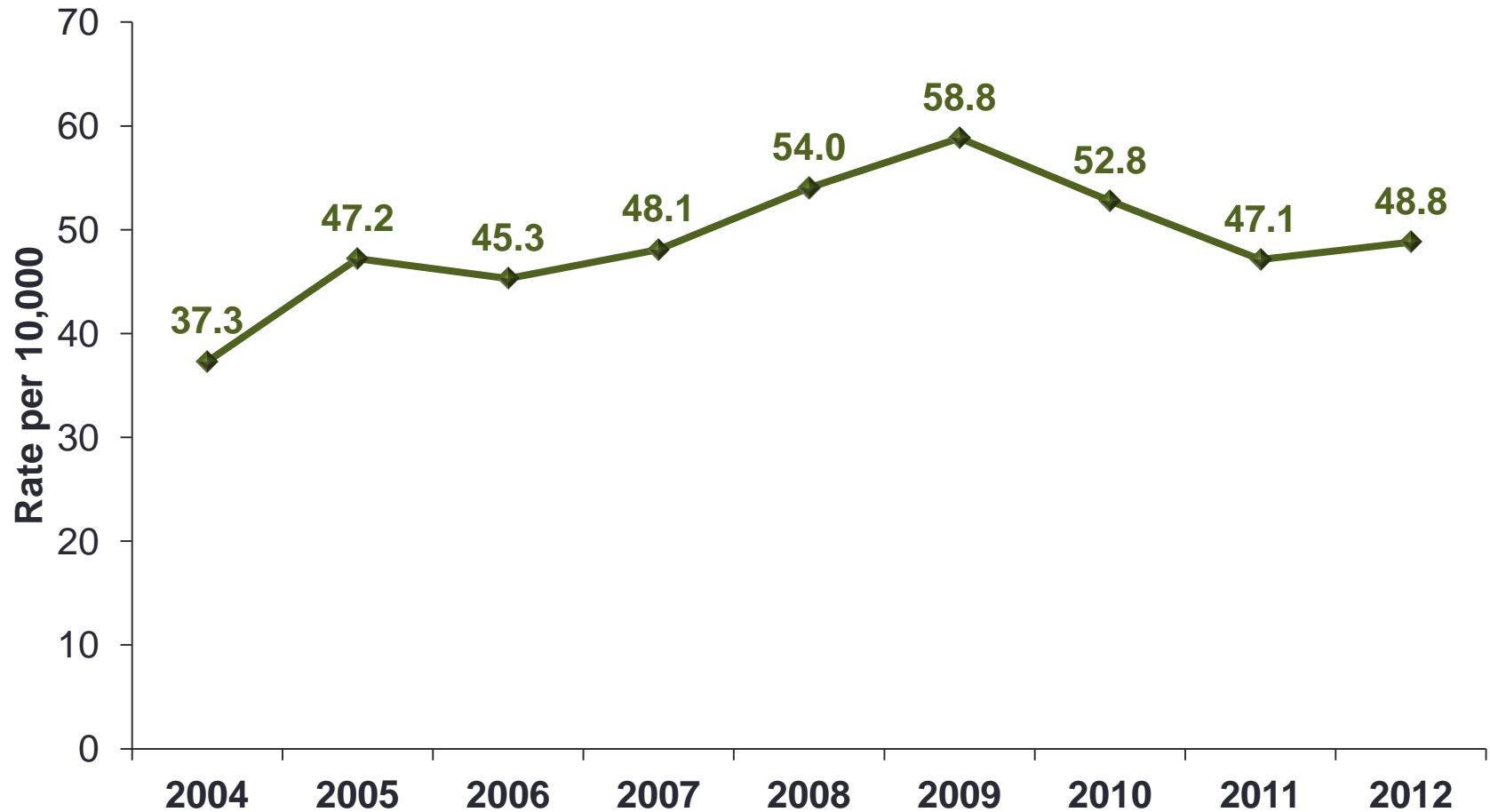
Source: [CDC](#) and [ISDH DAT](#). (2013). *Behavioral Risk Factor Surveillance System Adult Asthma Call-back Survey, 2012*.

Asthma control among children (0–17 years), Indiana, 2006–2010



Source: [CDC](#) and [ISDH DAT](#). (2012). *Behavioral Risk Factor Surveillance System Child Multi-year Asthma Call-back Survey, 2006-2010*.

Asthma* ED visit rates,** Indiana, 2004–2012

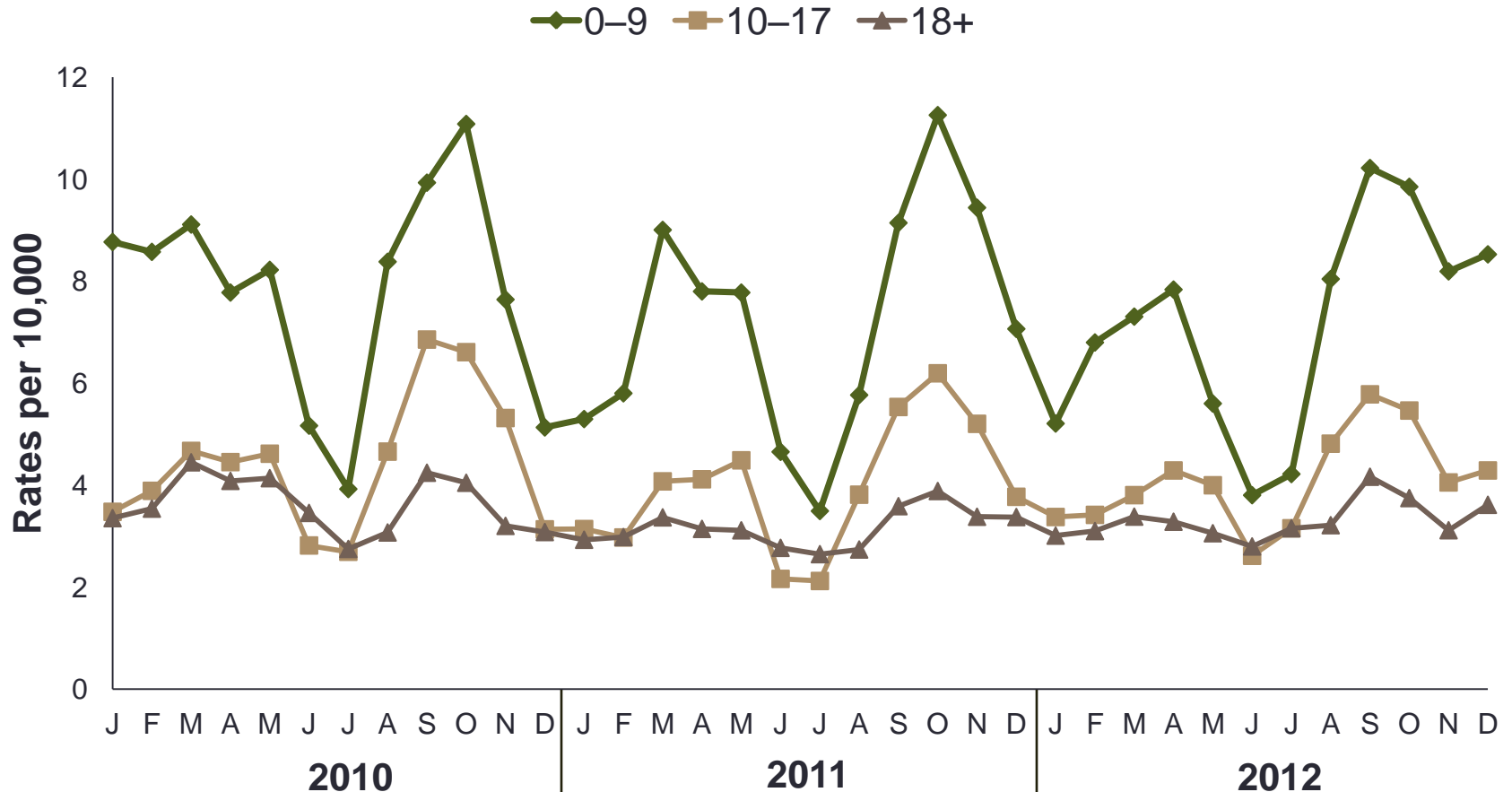


*Primary diagnosis asthma emergency department visits.

**Age-adjusted rates per 10,000 population.

Source: [Indiana State Department of Health. \(2013\). Indiana Hospital Discharge Data Files, 2004-2012.](#)

Asthma* ED visit rates** by month and age, Indiana, 2010–2012

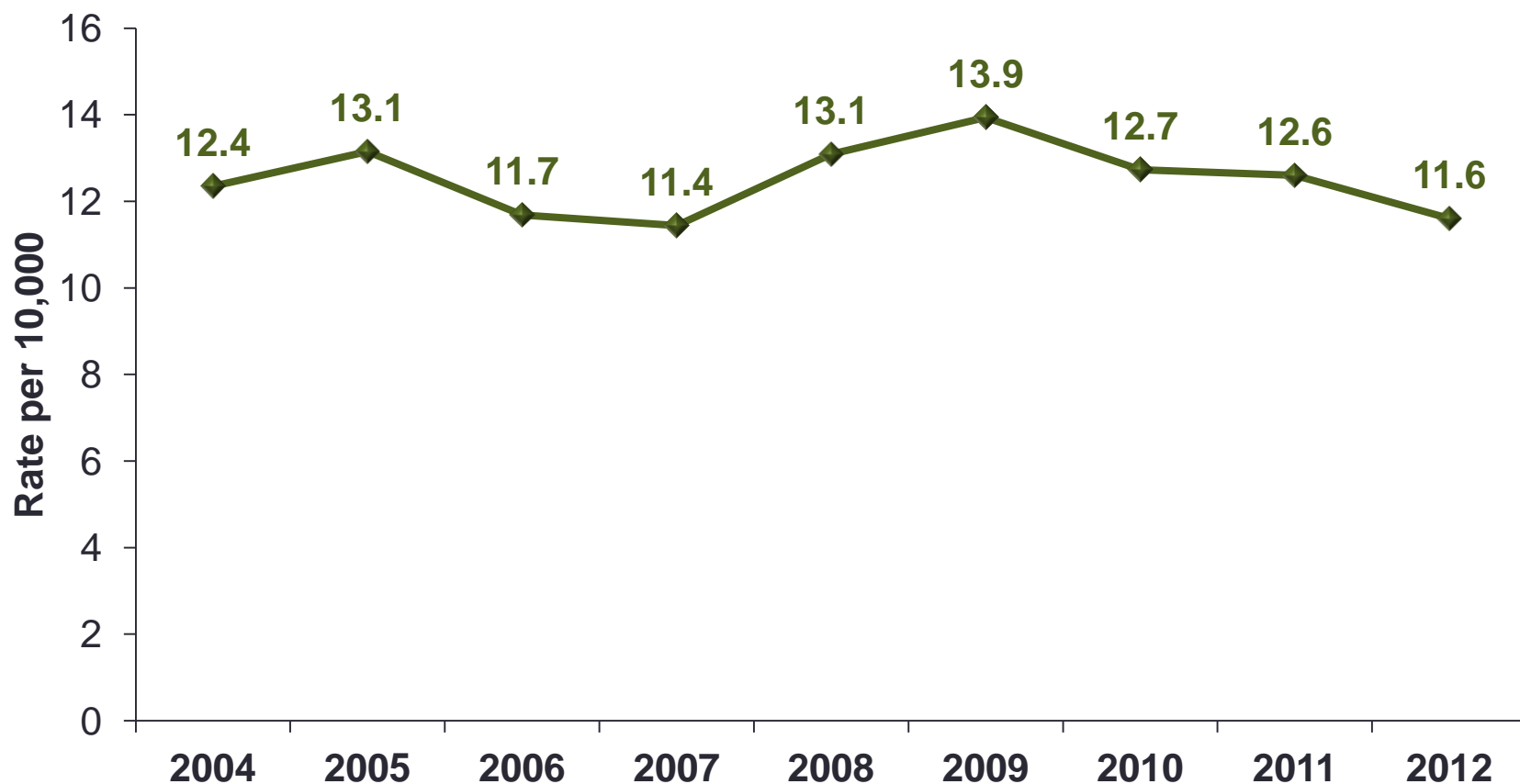


*Primary diagnosis asthma emergency department visits.

**Age-specific rates per 10,000 population.

Source: [Indiana State Department of Health. \(2013\). Indiana Hospital Discharge Data Files, 2010–2012.](#)

Asthma* hospitalization rates,** Indiana, 2004–2012

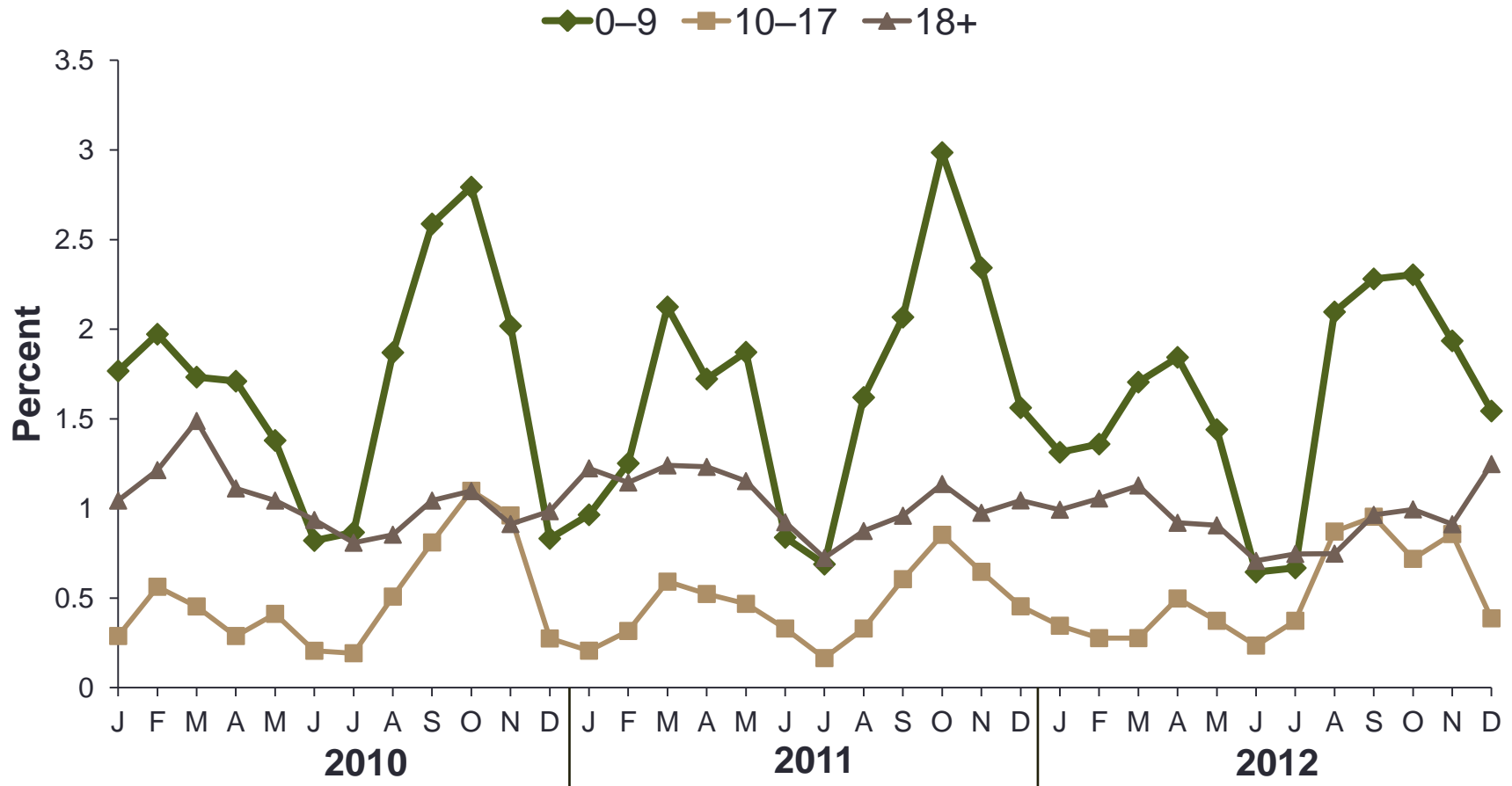


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**Age-adjusted rates per 10,000 population.

Source: [Indiana State Department of Health. \(2013\). Indiana Hospital Discharge Data Files, 2004-2012.](#)

Asthma* hospitalization rates** by month and age, Indiana, 2010–2012



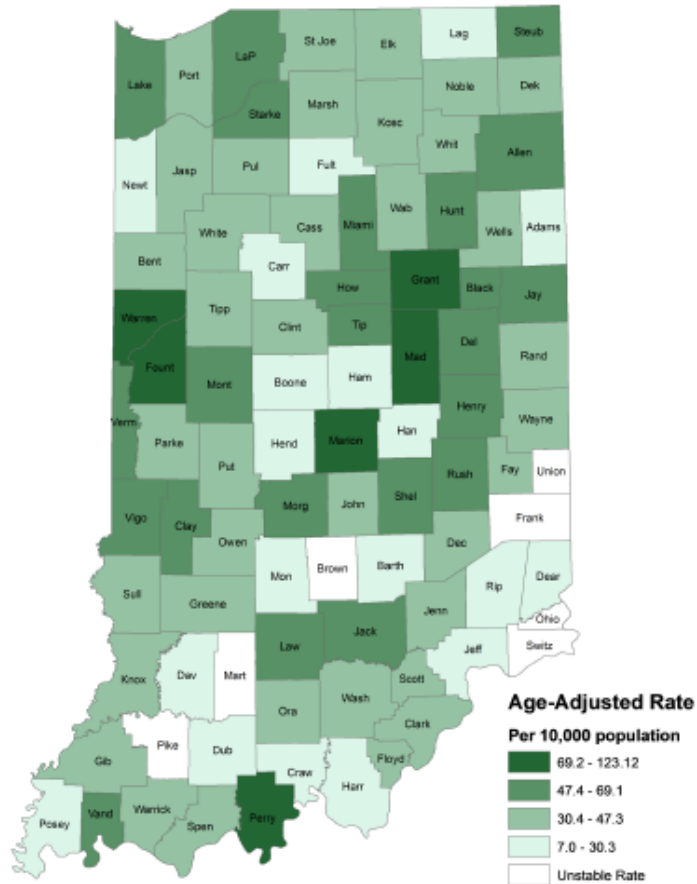
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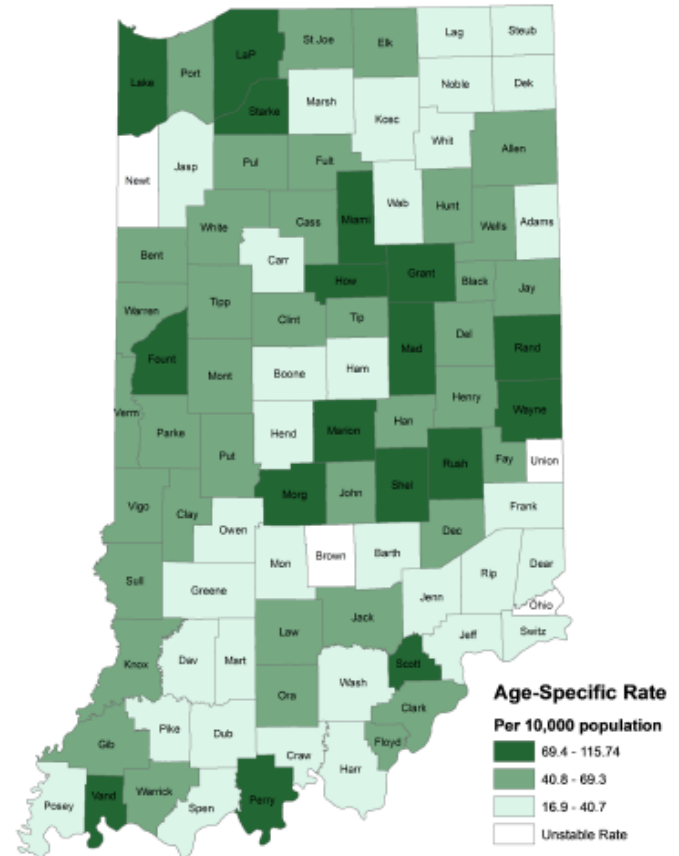
Source: [Indiana State Department of Health. \(2013\). Indiana Hospital Discharge Data Files, 2010–2012.](#)

Emergency Department Visits, Overall and Children 5–17

Asthma Emergency Department Visits, Indiana, 2012

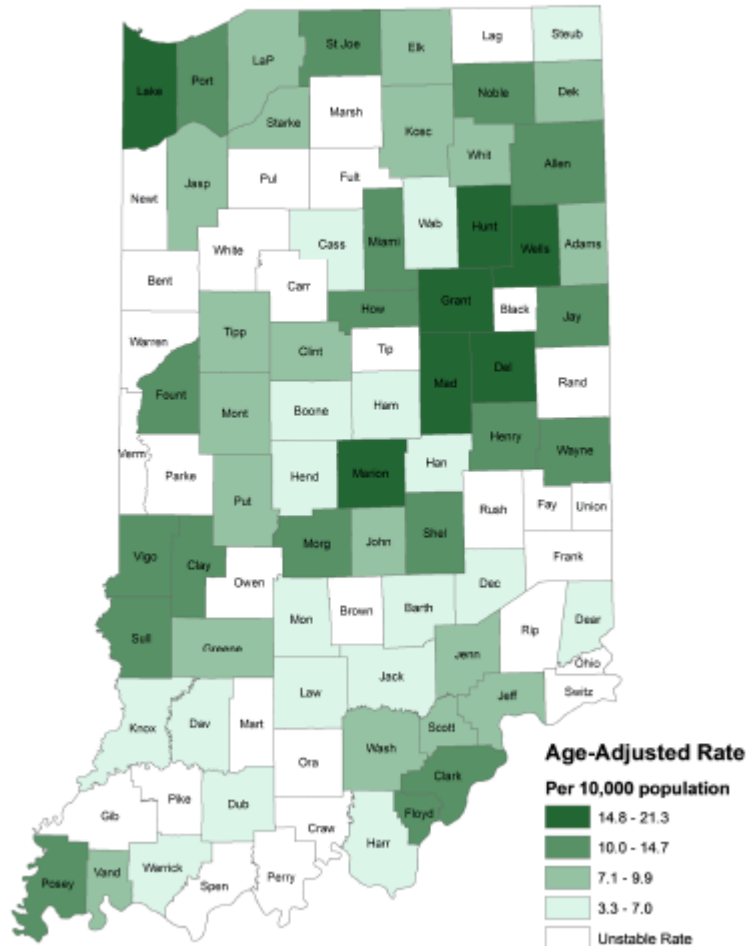


Child Asthma Emergency Department Visits, Indiana,
Children 5–17 years, 2008–2012

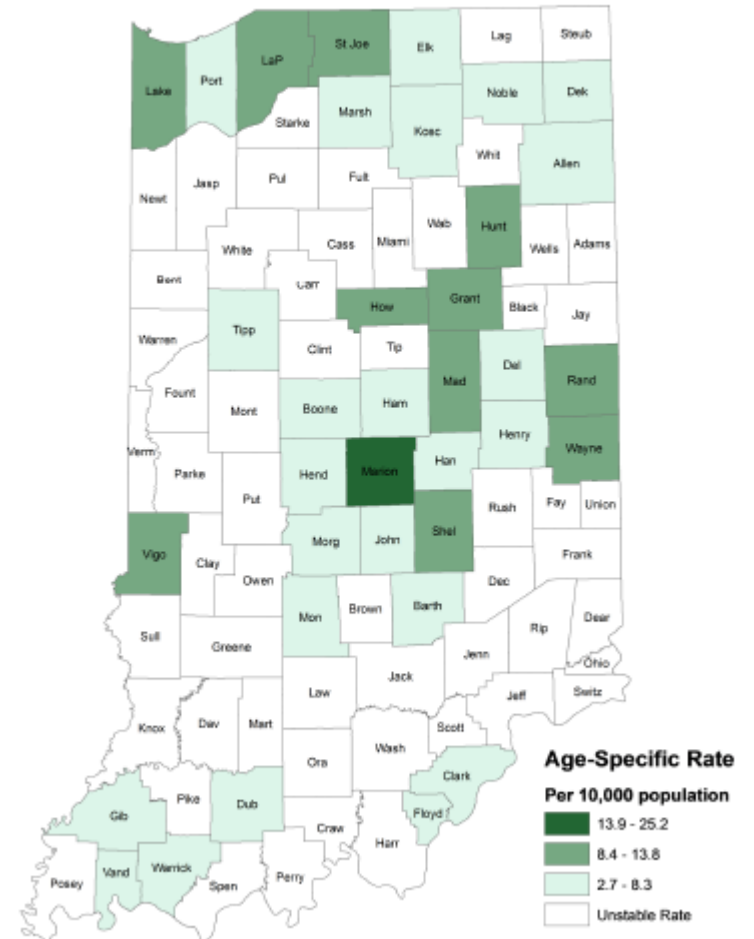


In-patient Hospitalization, Overall and Children 5–17

Asthma Hospitalizations, Indiana, 2012



Child Asthma Hospitalizations, Indiana, Children 5–17 years, 2008–2012



For more information

- ❑ **ISDH Asthma Program website**
 - <http://www.in.gov/isdh/24965.htm>

- ❑ **Most current Indiana data**
 - <http://www.in.gov/isdh/17279.htm>

- ❑ **Data request form**
 - [http://www.in.gov/isdh/files/Asthma ISDH Data Request Form.docx](http://www.in.gov/isdh/files/Asthma_ISDH_Data_Request_Form.docx)

- ❑ **Indiana INdicators: health-related indicators for the state and by county**
 - <http://indianaindicators.org/>

Contact Information

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For more asthma data, visit the Asthma Program's [Data and Reports](http://www.in.gov/isdh/17279.htm) webpage at <http://www.in.gov/isdh/17279.htm>.