Asthma In Indiana

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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)**

- **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.

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.

Asthma self-management education among Hoosiers with current asthma

<table>
<thead>
<tr>
<th>Has a health care professional . . .</th>
<th>Adults¹</th>
<th>Children²</th>
</tr>
</thead>
<tbody>
<tr>
<td>shown you how to use an inhaler?</td>
<td>93.7%</td>
<td>95.3%</td>
</tr>
<tr>
<td>taught you what to do during an asthma episode or attack?</td>
<td>78.4%</td>
<td>85.4%</td>
</tr>
<tr>
<td>watched you use an inhaler?</td>
<td>76.8%</td>
<td>82.7%</td>
</tr>
<tr>
<td>taught you how to recognize early signs or symptoms of an asthma episode?</td>
<td>67.1%</td>
<td>81.8%</td>
</tr>
<tr>
<td>taught you how to use a peak flow meter to adjust daily medications?</td>
<td>47.0%</td>
<td>39.7%</td>
</tr>
<tr>
<td>given you an asthma action plan?</td>
<td>35.5%</td>
<td>47.7%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Have you . . .</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ever taken a course to manage asthma</td>
<td>8.8%</td>
</tr>
</tbody>
</table>

## Barriers facing Hoosiers with current asthma

<table>
<thead>
<tr>
<th></th>
<th>Adults¹</th>
<th>Children²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uninsured</td>
<td>16.5%</td>
<td>4.1%</td>
</tr>
<tr>
<td>Unable to see primary care doctor for asthma because of the cost</td>
<td>15.9%</td>
<td>6.9%</td>
</tr>
<tr>
<td>Unable to see specialist because of the cost</td>
<td>9.8%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Unable to buy medications because of the cost</td>
<td>30.6%</td>
<td>11.9%</td>
</tr>
<tr>
<td>Missed at least 1 day of work/school in the past 12 months due to asthma</td>
<td>33.6%</td>
<td>44.7%</td>
</tr>
<tr>
<td>Limited usual activities ‘a lot’ within the past 12 months due to asthma</td>
<td>9.6%</td>
<td>4.2%</td>
</tr>
<tr>
<td>Had no asthma symptom-free days during the past 2 weeks</td>
<td>29.9%</td>
<td>11.6%</td>
</tr>
</tbody>
</table>

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

- Well controlled: 27.2%
- Not well controlled: 43.2%
- Very poorly controlled: 29.6%

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

- **Well controlled**: 27.0%
- **Not well controlled**: 54.7%
- **Very poorly controlled**: 18.3%

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

*Primary diagnosis asthma emergency department visits.
**Age-adjusted rates per 10,000 population.
Asthma* ED visit rates** by month and age, Indiana, 2010–2012

*Primary diagnosis asthma emergency department visits.
**Age-specific rates per 10,000 population.
Asthma* hospitalization rates,** Indiana, 2004–2012

*Primary diagnosis asthma hospitalizations.
**Age-adjusted rates per 10,000 population.
Asthma* hospitalization rates** by month and age, Indiana, 2010–2012

*Primary diagnosis asthma hospitalizations.
**Age-specific rates per 10,000 population.
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

Age-Adjusted Rate
Per 10,000 population
- 69.2 - 123.12
- 47.4 - 69.1
- 30.4 - 47.3
- 7.0 - 30.3
- Unstable Rate

Age-Specific Rate
Per 10,000 population
- 68.4 - 115.74
- 46.8 - 69.3
- 16.9 - 40.7
- Unstable Rate
In-patient Hospitalization, Overall and Children 5–17

Asthma Hospitalizations, Indiana, 2012

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

Age-Adjusted Rate
Per 10,000 population
- 14.8 - 21.3
- 10.0 - 14.7
- 7.1 - 9.9
- 3.3 - 7.0
- Unstable Rate

Age-Specific Rate
Per 10,000 population
- 13.9 - 25.2
- 8.4 - 13.8
- 2.7 - 8.3
- Unstable Rate
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

- 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 webpage at http://www.in.gov/isdh/17279.htm.