Asthma in Pennsylvania: Epidemiology and Interventions

Asthma Control Program
Bureau of Epidemiology
Pennsylvania Department of Health

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Topics of Discussion

- Asthma Prevalence
- Asthma Hospitalization
- Charges for Asthma Hospitalizations
- Asthma Mortality
- Pennsylvania Asthma Partnership Programs-Interventions
Self-Reported Current Asthma Prevalence Among Pennsylvania Residents Age 18+, 2005-2009

<table>
<thead>
<tr>
<th>Selected Characteristics</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Percent</td>
<td>95%CI</td>
<td>Percent</td>
<td>95%CI</td>
<td>Percent</td>
</tr>
<tr>
<td>Overall</td>
<td>8</td>
<td>7-9</td>
<td>9</td>
<td>8-9</td>
<td>9</td>
</tr>
<tr>
<td>Male</td>
<td>6</td>
<td>5-7</td>
<td>6</td>
<td>5-7</td>
<td>7</td>
</tr>
<tr>
<td>Female</td>
<td>10</td>
<td>9-11</td>
<td>11</td>
<td>10-12</td>
<td>11</td>
</tr>
<tr>
<td>Age 18-29</td>
<td>10</td>
<td>8-13</td>
<td>12</td>
<td>10-15</td>
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<tr>
<td>Age 30-44</td>
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<td>8-11</td>
<td>8</td>
<td>7-10</td>
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<tr>
<td>Age 45-64</td>
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<td>7-9</td>
<td>8</td>
<td>7-9</td>
<td>8</td>
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<tr>
<td>Age GE 65</td>
<td>6</td>
<td>5-7</td>
<td>7</td>
<td>6-8</td>
<td>7</td>
</tr>
</tbody>
</table>

Data Source: Pennsylvania Behavioral Risk Factor Surveillance System (BRFSS).
CI denotes confidence interval.
Self-Reported Current Asthma Prevalence Among Children, PA 2005-2009

Data Source: Pennsylvania Behavioral Risk Factor Surveillance System (BRFSS).
CI denotes confidence interval.
Rates for Inpatient Hospitalizations with Asthma Among Children and Adults, PA 2006-2010

Data Source: Pennsylvania Health Care Cost Containment Council (PHC4)
CI denotes confidence interval.
Rates for Inpatient Hospitalizations with Asthma by Age Group and Gender, PA 2006-2010

Data Source: Pennsylvania Health Care Cost Containment Council (PHC4)
CI denotes confidence interval.
Average Charge Per Hospitalization Among Children and Adults Due To Asthma, PA 2006-2010

Data Source: Pennsylvania Health Care Cost Containment Council (PHC4)
Age-Adjusted Asthma Death* Rates Among Pennsylvania Residents, 2000-2009

Data Source: Pennsylvania Department of Health, Bureau of Health Statistics and Research.

* Only includes death with asthma listed as the underlying cause.
Vertical bars on the graph denote the 95% confidence interval.
Key findings:

According to presented data:

Self-reported current asthma prevalence among adults, was significantly higher among females compared to males.

Although the prevalence estimates among children were higher among males compared to females, they were not considered significantly different at the 95% confidence level.

Inpatient hospitalization rates with asthma as the primary discharge diagnosis were significantly higher:
Among children compared to adults
Among males ages 0-14 and females ages 15-65+
Pennsylvania Asthma Partnership Programs-Interventions

- Asthma 101 Program teaches school personnel through online Learning Management System (LMS)

- Healthy Home Environment Program (HHEP) educates people with asthma symptoms and helps to identify possible asthma triggers in their homes

- The Improving Performance in Practice (IPIP) Program provides training to physicians on Chronic Care Model/Initiative
Disclaimer:

These data were provided by the Bureau of Health Statistics and Research, Pennsylvania Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions. The Pennsylvania Department of Health disclaims responsibility for any analyses, interpretations or conclusions made by the user based on presented data.
Disclaimer:

The Pennsylvania Health Care Cost Containment Council (PHC4) is an independent state agency responsible for addressing the problem of escalating health costs, ensuring the quality of health care, and increasing access to health care for all citizens. While PHC4 has provided data for this study, PHC4 specifically disclaims responsibility for any analyses, interpretations or conclusions.
Asthma Resources

Online:
Pennsylvania Asthma Control Program:  
www.health.state.pa.us or www.PAasthma.org
You can download:
- 2011 Asthma Burden in CHIP Population Report
- Previous asthma focus reports
- Asthma resources for national, state and local levels

Printed Copies of:
- Educational materials for asthma
- Asthma reports
- Asthma Fact Sheets
- Asthma presentations
Acknowledgments

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Pennsylvania Department of Health, Bureau of Health Statistics and Research
Pennsylvania Health Care Cost Containment Council (PHC4)
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Thank you!