Show me the data!

SURVEILLANCE SOURCES OF NATIONAL, STATE, AND LOCAL LEVEL ASTHMA DATA

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Illinois Asthma Program
Illinois Asthma Partnership Meeting
March 20, 2013
Types of Information

- Prevalence
- Mortality
- Hospitalization
  - Emergency Department, Outpatient
  - Office visits
- Special Topics/Additional Resources
Data, Assessment, and Outcomes Workgroup

[Image of Burden of Asthma in Illinois 2000-2007]

http://www.idph.state.il.us/about/chronic/asthma.htm
http://www.cdc.gov/asthma/asthmadata.htm
Adult Prevalence
National and State

http://www.cdc.gov/brfss/index.htm
Adult and Child Prevalence

National and State

Adult and Child Prevalence and Adult History

http://www.cdc.gov/asthma/brfss/default.htm
Adult and Child Prevalence
National and Regional (Midwest)

www.cdc.gov/asthma/nhis/default.htm
Adult and Child Prevalence

National and Regional (Midwest)

http://www.cdc.gov/asthma/nhis/2011/data.htm
### Child Prevalence

#### National and State

**2007 National Survey of Children's Health**

How many children currently have asthma? (details...)

<table>
<thead>
<tr>
<th></th>
<th>Illinois</th>
<th>Do not have condition</th>
<th>Had condition at some point, but not currently</th>
<th>Currently have condition</th>
<th>Total %</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>88.3</td>
<td>69</td>
<td>8.4</td>
<td></td>
<td>100.0</td>
</tr>
<tr>
<td>C.I.</td>
<td>(86.5 - 90.2)</td>
<td>(2.3 - 4.3)</td>
<td>(6.7 - 10.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n</td>
<td>1,678</td>
<td>69</td>
<td>172</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pop. Est.</td>
<td>2,808,844</td>
<td>104,515</td>
<td>266,317</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C.I. = 95% Confidence Interval. Percentages are weighted to population characteristics. n = Cell size. Use caution in interpreting Cell sizes less than 50.

**2009/10 National Survey of Children with Special Health Care Needs**

How many CSHCN currently have asthma? (details)

<table>
<thead>
<tr>
<th></th>
<th>Illinois</th>
<th>Do not have condition</th>
<th>Had condition at some point, but not currently</th>
<th>Currently have condition</th>
<th>Total %</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>62.9</td>
<td>53</td>
<td>247</td>
<td></td>
<td>100.0</td>
</tr>
<tr>
<td>C.I.</td>
<td>(58.2 - 67.7)</td>
<td>(3.8 - 7.4)</td>
<td>(26.9 - 36.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n</td>
<td>489</td>
<td>53</td>
<td>247</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pop. Est.</td>
<td>280,791</td>
<td>25,086</td>
<td>140,309</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C.I. = 95% Confidence Interval. Percentages are weighted to population characteristics. n = Cell size. Use caution in interpreting Cell sizes less than 50.

www.cdc.gov/nchs/about/major/slaits/nsch.htm
http://childhealthdata.org/learn/NSCH

“Browse the data”
Mortality
National and State

Mortality Data

Mortality data from the National Vital Statistics System (NVSS) are a fundamental source of demographic, geographic, and cause-of-death information. This is one of the few sources of health-related data that are comparable for small geographic areas and are available for a long time period in the United States. The data are also used to present the characteristics of those dying in the United States, to determine life expectancy, and to compare mortality trends with other countries.

Standard forms for the collection of the data and model procedures for the uniform registration of the events are developed and recommended for nationwide use through cooperative activities of the jurisdictions and NCHS. Material is available to assist persons in completing the death certificate. NCHS shares the costs incurred by the States in providing vital statistics data for national use. For further information, refer to U.S. Vital Statistics System Major Activities and Developments: 1950-95. Software is available to automate coding of medical information on the death certificate, following World Health Organization rules specified in the International Classification of Diseases (ICD).

Key Mortality Statistics

Data for United States in 2009
- Number of deaths: 2,437,163
- Death rate: 793.8 deaths per 100,000 population
- Life expectancy: 78.5 years
- Infant Mortality rate: 6.39 deaths per 1,000 live births

Source: Deaths: Final Data for 2009, Tables 1, 7, 10, 20

What's New

Publications
- Infant Mortality Statistics from the 2009 Period Linked Birth/Infant Death Data Set (PDF: 438 KB) (1/2013)
- Deaths: Leading Causes for 2009 (PDF: 2.54 MB) (10/2012)
- Deaths: Preliminary Data for 2011 (PDF: 1.68 MB) (10/2012)
- United States Life Tables, 2008 (PDF:

http://www.cdc.gov/nchs/deaths.htm
Mortality
National, State, Local somewhat available

http://wonder.cdc.gov/
Mortality
National, State, Local somewhat available

Results from three years (2008-2010) of asthma mortality data from the CDC Wonder site

<table>
<thead>
<tr>
<th>County</th>
<th>Deaths</th>
<th>Population</th>
<th>Crude Rate Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cook County, IL</td>
<td>287</td>
<td>15,538,234</td>
<td>1.8</td>
</tr>
<tr>
<td>DuPage County, IL</td>
<td>18</td>
<td>2,739,454</td>
<td>Unreliable</td>
</tr>
<tr>
<td>Kane County, IL</td>
<td>18</td>
<td>1,530,979</td>
<td>Unreliable</td>
</tr>
<tr>
<td>Lake County, IL</td>
<td>18</td>
<td>2,101,873</td>
<td>Unreliable</td>
</tr>
<tr>
<td>McHenry County, IL</td>
<td>13</td>
<td>924,073</td>
<td>Unreliable</td>
</tr>
<tr>
<td>St. Clair County, IL</td>
<td>15</td>
<td>805,063</td>
<td>Unreliable</td>
</tr>
<tr>
<td>Will County, IL</td>
<td>14</td>
<td>2,023,922</td>
<td>Unreliable</td>
</tr>
<tr>
<td>Total</td>
<td>519</td>
<td>38,374,448</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Caveats:
Data are Suppressed when the data meet the criteria for confidentiality constraints. [More information.](#)

Death rates are flagged as Unreliable when the rate is calculated with a numerator of 20 or less. [More information.](#)
Hospitalizations

National and Regional (Midwest)

The National Hospital Discharge Survey (NHDS), which was conducted annually from 1965-2010, was a national probability survey designed to meet the need for information on characteristics of inpatients discharged from non-Federal short-stay hospitals in the United States. Data from the NHDS are available annually and are used to examine important topics of interest in public health.

http://www.cdc.gov/nchs/nhds.htm
### IP Chronic Diseases - Asthma

**Source:** IDPH Discharge Data

**Contact:** IDPH Division of Patient Safety & Quality 217-782-6320 [More information about this indicator](#)

**Description:** The number of hospitalizations for asthma as principal diagnosis.

#### Show result in charts

<table>
<thead>
<tr>
<th>Area</th>
<th>Period</th>
<th>Count</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois</td>
<td>2009-2010</td>
<td>39,994</td>
<td>5.7</td>
</tr>
<tr>
<td>Central Chicago</td>
<td>2009-2010</td>
<td>352</td>
<td>6.8</td>
</tr>
<tr>
<td>Far South Chicago</td>
<td>2009-2010</td>
<td>2,471</td>
<td>9.9</td>
</tr>
<tr>
<td>North Chicago</td>
<td>2009-2010</td>
<td>1,660</td>
<td>6.8</td>
</tr>
<tr>
<td>Northwest Chicago</td>
<td>2009-2010</td>
<td>1,770</td>
<td>7.7</td>
</tr>
<tr>
<td>South Chicago</td>
<td>2009-2010</td>
<td>2,317</td>
<td>11.2</td>
</tr>
<tr>
<td>Southwest Chicago</td>
<td>2009-2010</td>
<td>2,691</td>
<td>11.1</td>
</tr>
<tr>
<td>West Chicago</td>
<td>2009-2010</td>
<td>3,757</td>
<td>14.0</td>
</tr>
</tbody>
</table>

**Rate Type:** Percent. Formula: the number of hospitalizations for asthma as principal diagnosis * 100 / IP Chronic Disease - All.

If a result is *****, it means that the value is small and is suppressed to ensure confidentiality and meaningful data.
Revised county-level asthma hospitalization rates with additional cases from Missouri, Wisconsin, and Indiana

Additional 1266 hospitalizations identified
ED Visits and Office Visits

National Ambulatory Medical Care Survey (NAMCS)

- Asthma measure: office visits
- Sample of visits to nonfederally employed office-based physicians primarily engaged in direct patient care
- Data collected by physician, rather than patient

National Hospital Ambulatory Medical Care Survey (NHAMCS)

- Asthma measure: emergency room visits
- Sample of visits to emergency departments and outpatient departments of non-institutional general and short-stay hospitals
- Data collected by hospital staff

http://www.cdc.gov/nchs/ahcd.htm
ED Visits
State and local

Illinois Public Health Community Map

http://www.healthcarereportcard.illinois.gov/maps
BRFSS Asthma Call-back
National and State

Adult Web Tables
Child Web Tables
Multi-Year 2006-2010

Asthma Call-back Survey (ACBS)

The Asthma Call-back Survey (ACBS) is a product of CDC’s National Asthma Control Program (NACP).

Asthma Call-back Survey

http://www.cdc.gov/asthma/ACBS.htm
Youth Risk Behavior Survey (YRBS)

- School-based survey
  - National
  - 40 State & 21 local components
- Youth and young adults
  - Grades 9–12
- Asthma - single chronic condition
  - Lifetime, current, episodes/attacks

Youth Risk Behavior Survey (YRBS)
State and Local

http://www.chdl.org/yrbs.htm
Has a doctor, nurse or other health professional ever told you that you have asthma?
1. Yes
2. No
3. Not sure

Do you still have asthma?
1. I never had asthma
2. Yes
3. No
4. Not sure

During the past 12 months, have you had an episode of asthma or asthma attack?
1. I never had asthma
2. Yes
3. No
4. Not sure

http://www.idph.state.il.us/
Medicaid Data

The Centers for Medicare & Medicaid Services (CMS) has developed chronic conditions and multiple chronic conditions as well as utilization of chronic conditions for the 50 U.S. states and Washington, D.C.

These state reports on chronic conditions are available for the year 2015 common chronic conditions among Medicare beneficiaries at national estimates. Report 2 presents the prevalence, utilization with multiple chronic conditions and allows for the comparison of there is a brief "Overview" section describing the data source, the calculating these indicators.

Downloads

State Level Chronic Condition Reports [ZIP, 773KB]

Community Commons

Local

http://www.communitycommons.org/
Health Data Interactive

National

http://www.cdc.gov/nchs/hdi.htm
# Health Indicators Warehouse

## National

![Image of Health Indicators Warehouse website](http://healthindicators.gov/)

### Search Results

We found 21 indicators which contain: **asthma**

<table>
<thead>
<tr>
<th>Indicator Description</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity limitations: persons with asthma (percent)</td>
<td>RD-4</td>
</tr>
<tr>
<td>Asthma deaths: adults 35-64 years (per 1,000,000)</td>
<td>RD-1.2</td>
</tr>
<tr>
<td>Asthma deaths: older adults (per 1,000,000)</td>
<td>RD-1.3</td>
</tr>
<tr>
<td>Asthma deaths: persons &lt;35 years (per 1,000,000)</td>
<td>RD-1.1</td>
</tr>
<tr>
<td>Asthma ED visits: children &lt;6 years (per 10,000)</td>
<td>RD-3.1</td>
</tr>
<tr>
<td>Asthma ED visits: older adults (per 10,000)</td>
<td>RD-3.3</td>
</tr>
<tr>
<td>Asthma ED visits: persons 5-64 years (per 10,000)</td>
<td>RD-3.2</td>
</tr>
<tr>
<td>Asthma exposure risks, advise to reduce: persons with asthma (percent)</td>
<td>RD-7.5</td>
</tr>
<tr>
<td>Asthma hospitalizations: children &lt;6 years (per 10,000)</td>
<td>RD-2.1</td>
</tr>
<tr>
<td>Asthma hospitalizations: older adults (per 10,000)</td>
<td>RD-2.3</td>
</tr>
<tr>
<td>Asthma hospitalizations: persons 5-64 years (per 10,000)</td>
<td>RD-2.2</td>
</tr>
</tbody>
</table>

Other Resources

- National Health and Nutrition Examination Survey (NHANES)
  - http://www.cdc.gov/nchs/nhanes.htm

-Sortable Stats 2.0
  - http://wwwn.cdc.gov/sortablestats/
Acknowledgements

Jeanne E. Moorman, Survey Statistician
Cathy Bailey, Surveillance Team Lead

Air Pollution and Respiratory Health Branch
National Center for Environmental Health
Centers for Disease Control and Prevention