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

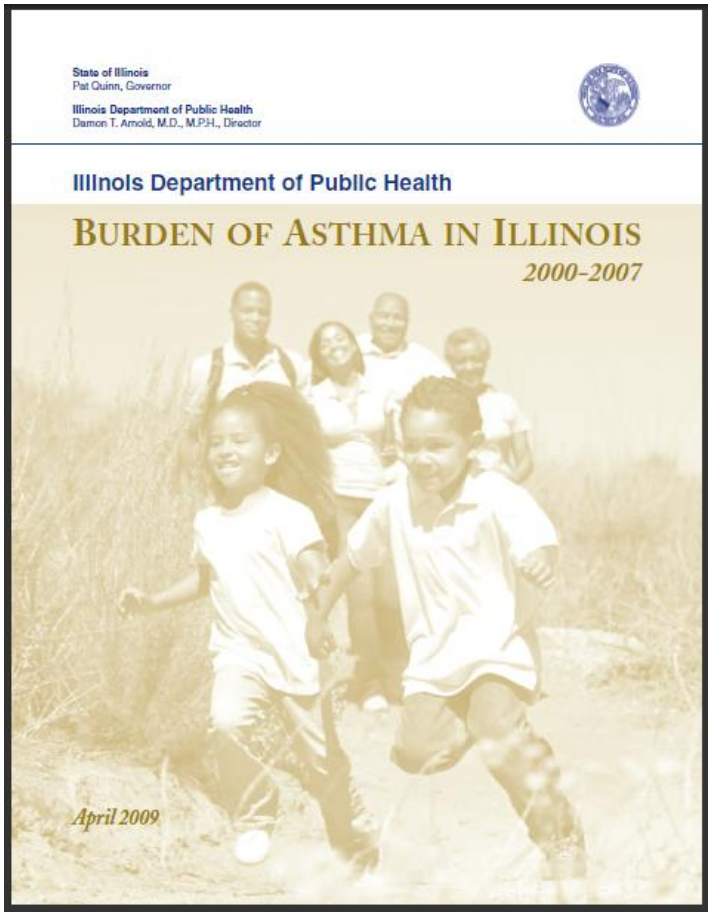
Nancy.amerson@illinois.gov

217-558-2637

Types of Information

- Prevalence
- Mortality
- Hospitalization
  - Emergency Department, Outpatient
  - Office visits
- Special Topics/Additional Resources

Data, Assessment, and Outcomes Workgroup



State of Illinois
Pat Quinn, Governor

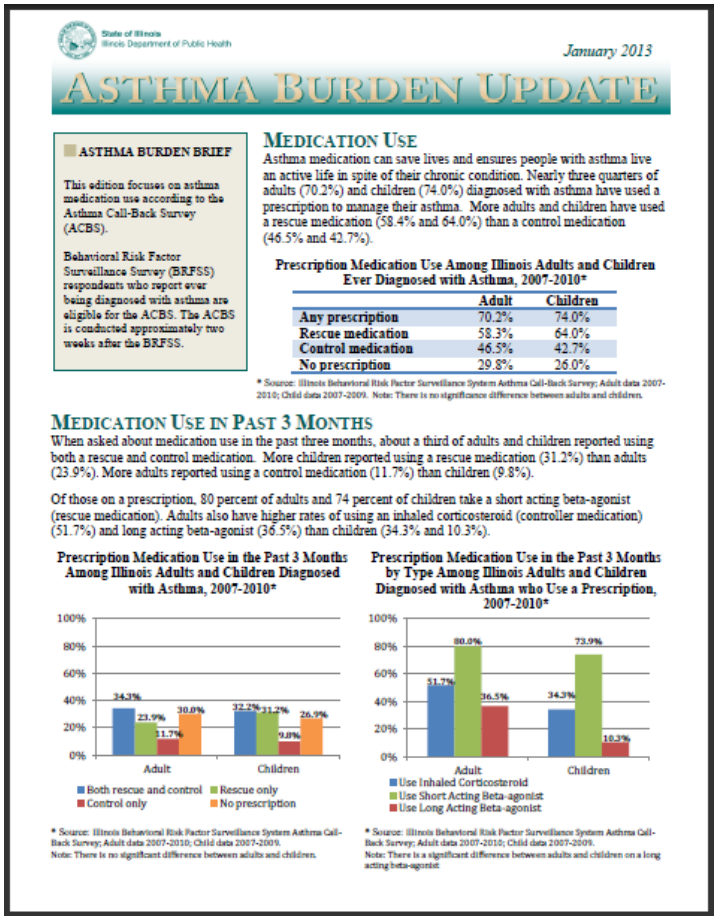
Illinois Department of Public Health
Damon T. Arnold, M.D., M.P.H., Director

Illinois Department of Public Health

BURDEN OF ASTHMA IN ILLINOIS

2000-2007

April 2009



State of Illinois
Illinois Department of Public Health

January 2013

ASTHMA BURDEN UPDATE

ASTHMA BURDEN BRIEF

This edition focuses on asthma medication use according to the Asthma Call-Back Survey (ACBS).

Behavioral Risk Factor Surveillance Survey (BRFSS) respondents who report ever being diagnosed with asthma are eligible for the ACBS. The ACBS is conducted approximately two weeks after the BRFSS.

MEDICATION USE

Asthma medication can save lives and ensures people with asthma live an active life in spite of their chronic condition. Nearly three quarters of adults (70.2%) and children (74.0%) diagnosed with asthma have used a prescription to manage their asthma. More adults and children have used a rescue medication (58.4% and 64.0%) than a control medication (46.5% and 42.7%).

Prescription Medication Use Among Illinois Adults and Children Ever Diagnosed with Asthma, 2007-2010*

	Adult	Children
Any prescription	70.2%	74.0%
Rescue medication	58.3%	64.0%
Control medication	46.5%	42.7%
No prescription	29.8%	26.0%

* Source: Illinois Behavioral Risk Factor Surveillance System Asthma Call-Back Survey; Adult data 2007-2010; Child data 2007-2009. Note: There is no significance difference between adults and children.

MEDICATION USE IN PAST 3 MONTHS

When asked about medication use in the past three months, about a third of adults and children reported using both a rescue and control medication. More children reported using a rescue medication (31.2%) than adults (23.9%). More adults reported using a control medication (11.7%) than children (9.8%).

Of those on a prescription, 80 percent of adults and 74 percent of children take a short acting beta-agonist (rescue medication). Adults also have higher rates of using an inhaled corticosteroid (controller medication) (51.7%) and long acting beta-agonist (36.5%) than children (34.3% and 10.3%).

Prescription Medication Use in the Past 3 Months Among Illinois Adults and Children Diagnosed with Asthma, 2007-2010*

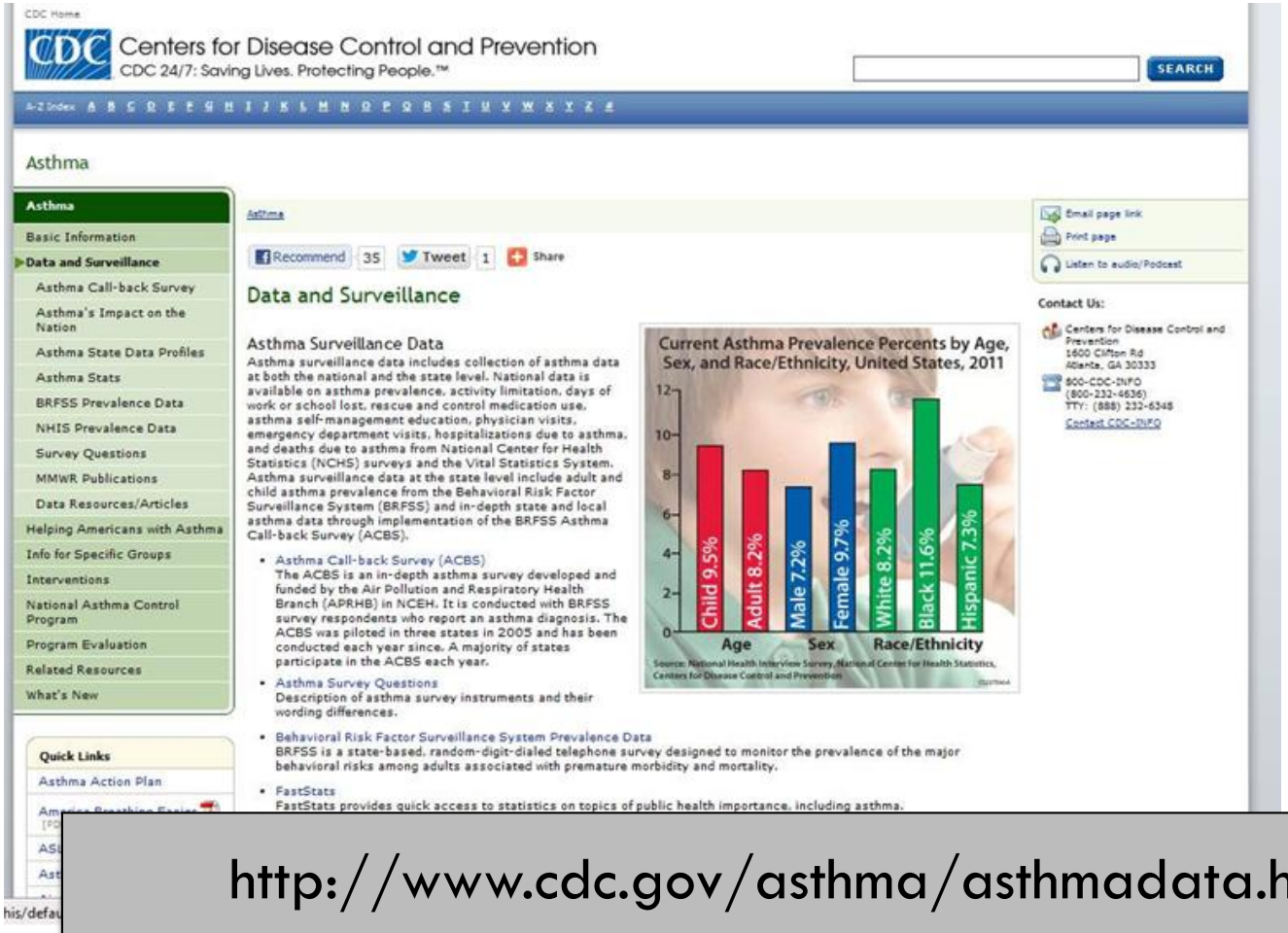
* Source: Illinois Behavioral Risk Factor Surveillance System Asthma Call-Back Survey; Adult data 2007-2010; Child data 2007-2009. Note: There is no significant difference between adults and children.

Prescription Medication Use in the Past 3 Months by Type Among Illinois Adults and Children Diagnosed with Asthma who Use a Prescription, 2007-2010*

* Source: Illinois Behavioral Risk Factor Surveillance System Asthma Call-Back Survey; Adult data 2007-2010; Child data 2007-2009. Note: There is a significant difference between adults and children on a long acting beta-agonist

http://www.idph.state.il.us/about/chronic/asthma.htm

National Asthma Program Data and Surveillance Home Page



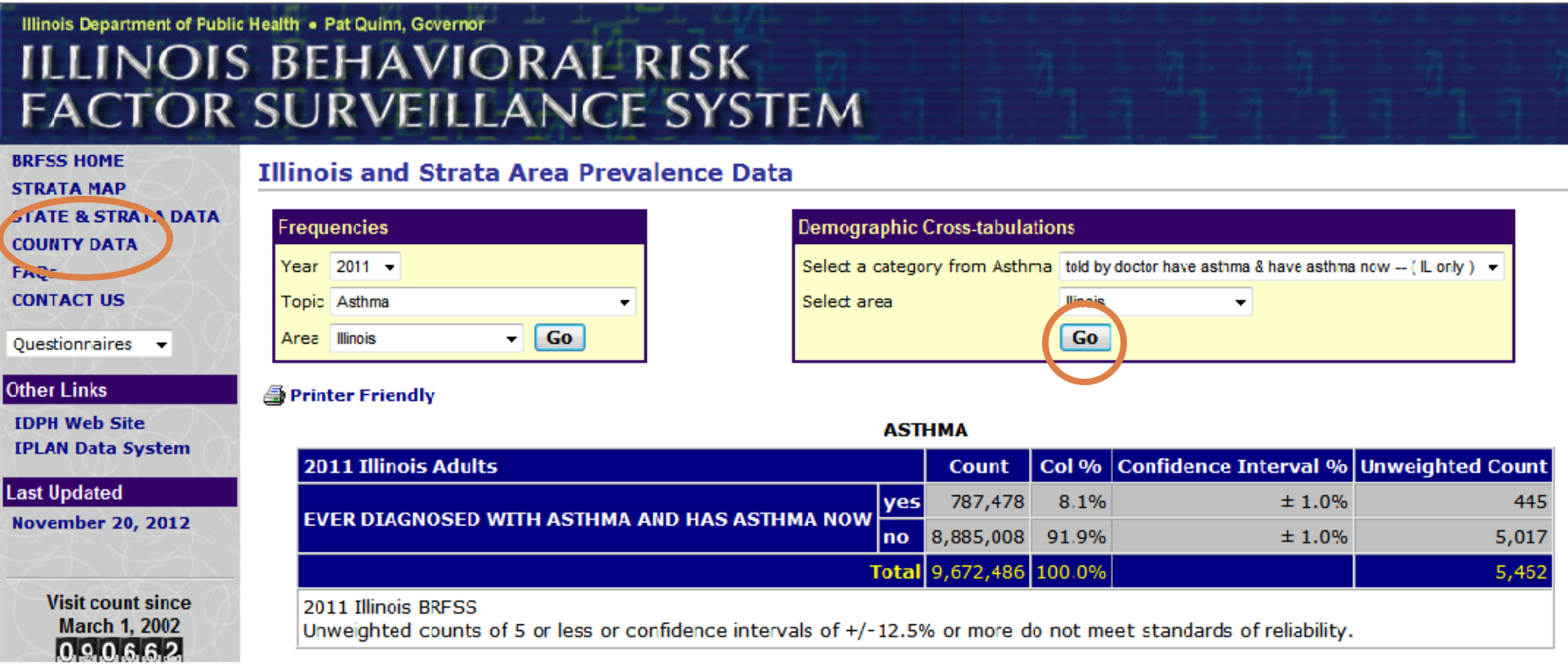
http://www.cdc.gov/asthma/asthmadata.htm

Adult Prevalence
National and State

http://www.cdc.gov/brfss/index.htm

Adult Prevalence

State and Local

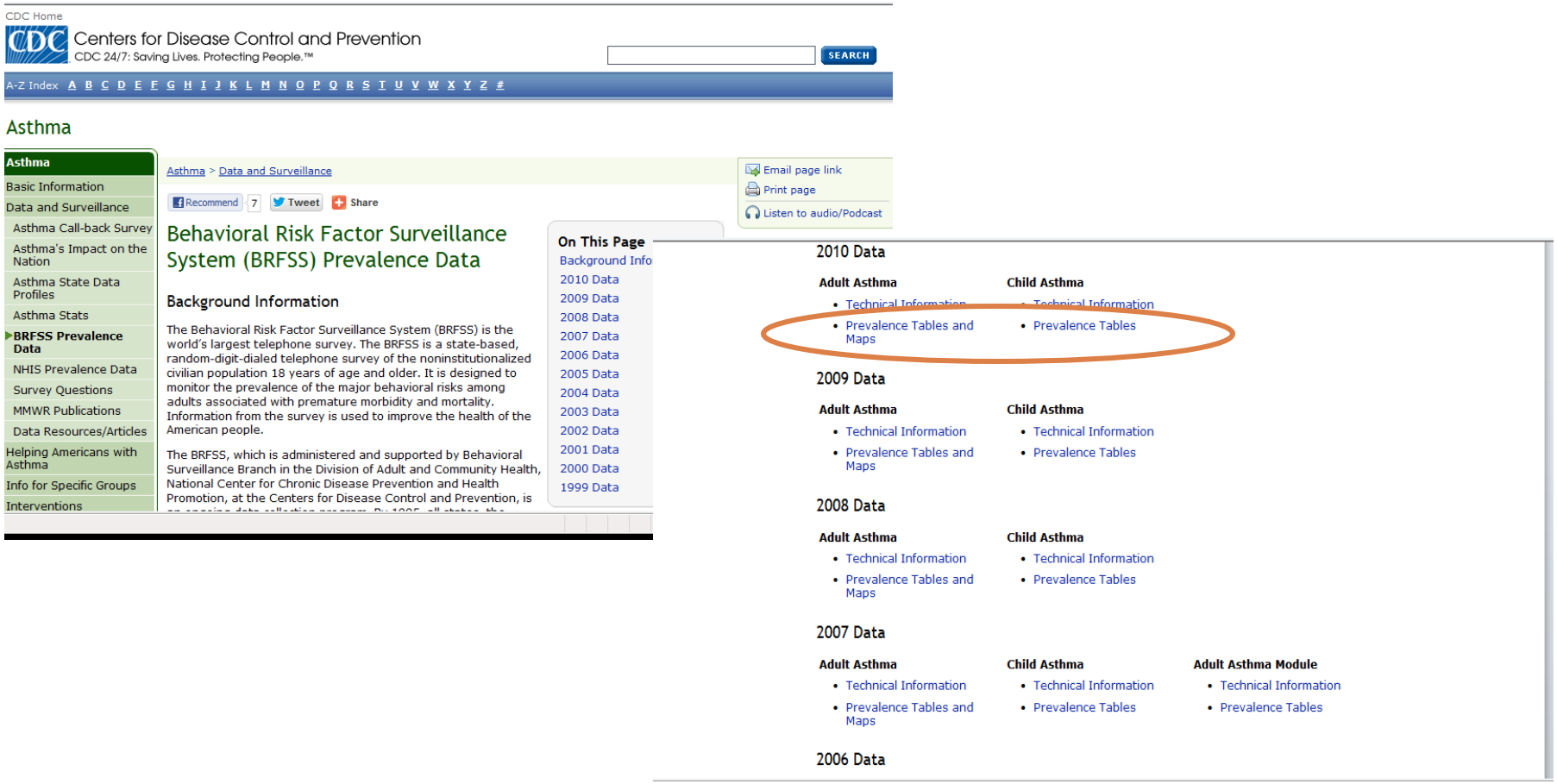


http://app.idph.state.il.us/brfss/

Adult and Child Prevalence

National and State

Adult and Child Prevalence and Adult History



http://www.cdc.gov/asthma/brfss/default.htm

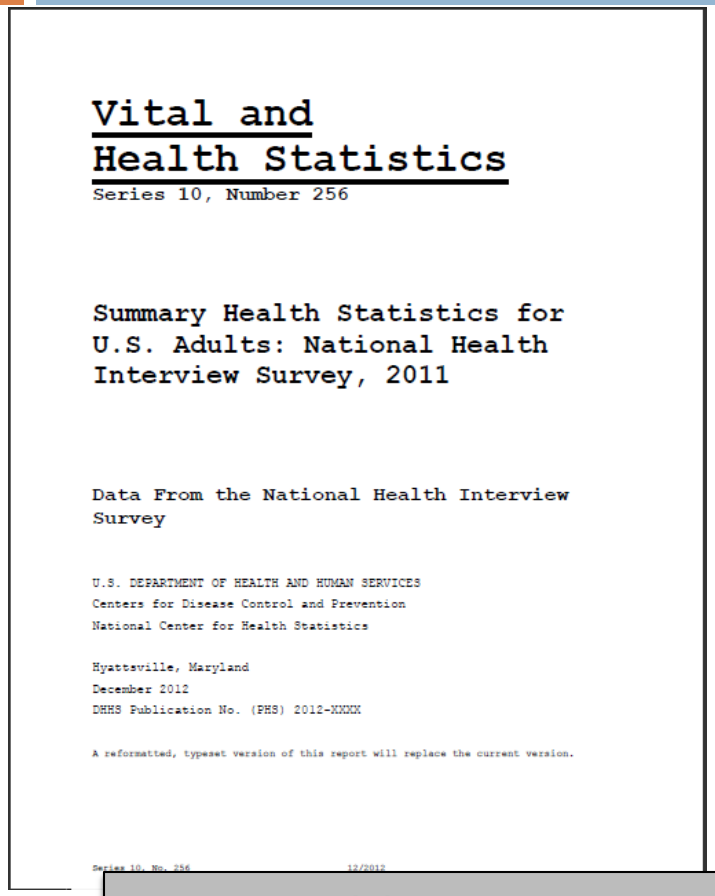
Adult and Child Prevalence

National and Regional (Midwest)

www.cdc.gov/asthma/nhis/default.htm

Adult and Child Prevalence

National and Regional (Midwest)



Vital and Health Statistics

Series 10, Number 256

Summary Health Statistics for U.S. Adults: National Health Interview Survey, 2011

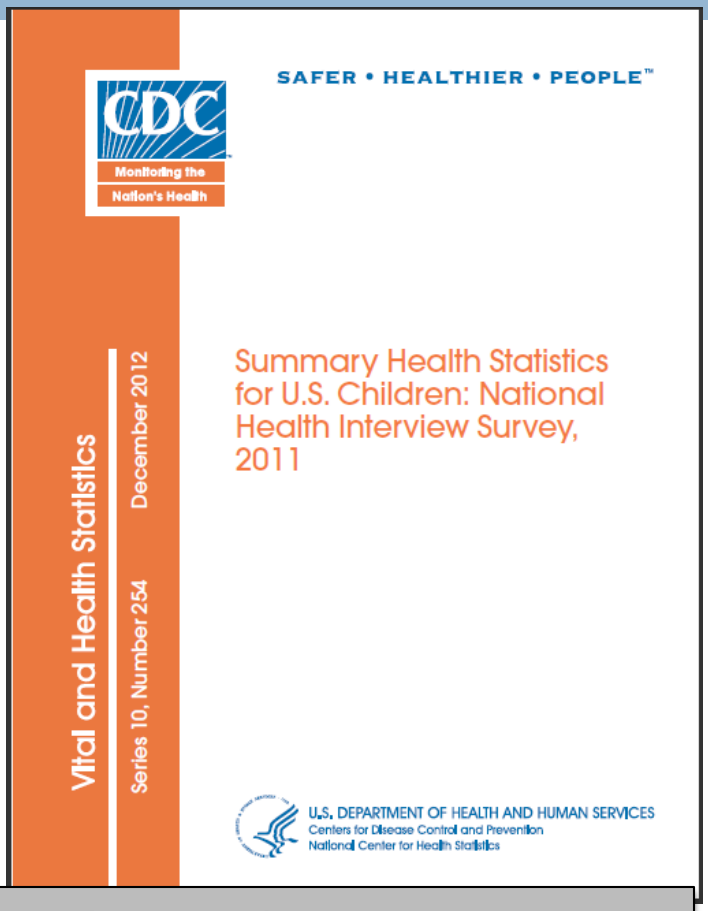
Data From the National Health Interview Survey

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics

Hyattsville, Maryland
December 2012
DHHS Publication No. (PHS) 2012-XXXX

A reformatted, typeset version of this report will replace the current version.

Series 10, No. 256 12/2012



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CDC Monitoring the Nation's Health

Vital and Health Statistics

Series 10, Number 254 December 2012

Summary Health Statistics for U.S. Children: National Health Interview Survey, 2011

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics

http://www.cdc.gov/nchs/products/series/series10.htm
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...)

Illinois	Do not have condition	Had condition at some point, but not currently	Currently have condition	Total %
%	**88.3**	**3.3**	**8.4**	**100.0**
C.I.	(86.5 - 90.2)	(2.3 - 4.3)	(6.7 - 10.0)	
n	1,678	69	172	
Pop. Est.	2,808,844	104,515	266,317	

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)

Illinois	Do not have condition	Had condition at some point, but not currently	Currently have condition	Total %
%	**62.9**	**5.6**	**31.4**	**100.0**
C.I.	(58.2 - 67.7)	(3.8 - 7.4)	(26.9 - 36.0)	
n	489	53	247	
Pop. Est.	280,791	25,086	140,309	

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

National Vital Statistics System

National Vital Statistics System
- About NVSS
- What's New
- Birth Data
- **Mortality Data**
  - Datasets and Related Documentation
  - Results and Publications
  - Related Sites
- Fetal Death Data
- Linked Birth and Infant Death Data
- Marriages and Divorces
- National Maternal and Infant Health Survey
- National Mortality Followback Survey
- Publications and Information Products
- Listserv

Related Sites
- Surveys and Data Collection Systems
- Vital Statistics Online
- National Death Index
- 2003 Revisions of the U.S. Standard Vital Certificates
- 2011 Model Law

NCHS Home > Surveys and Data Collection Systems > National Vital Statistics System

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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).

Contact Us:

Division of Vital Statistics
National Center for Health Statistics
3311 Toledo Rd
Hyattsville, MD 20782
1 (800) 232-4636
Contact CDC–INFO

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** [PDF - 1.4 MB]

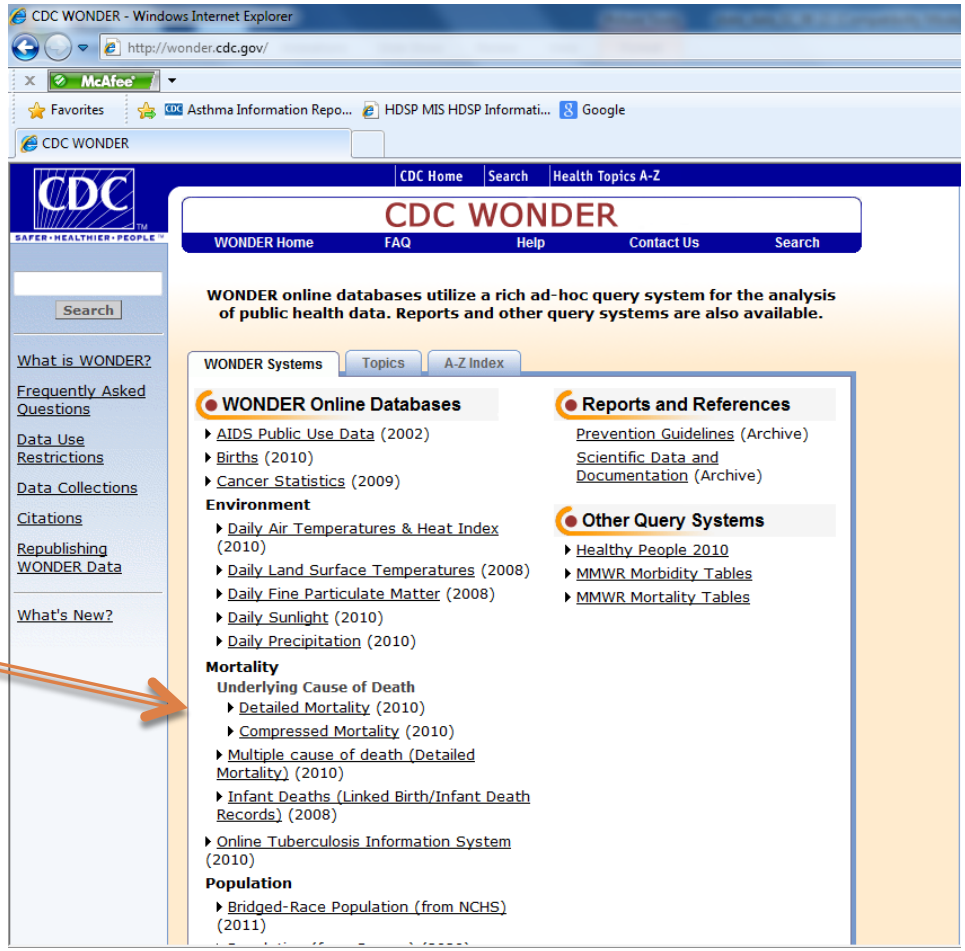
What's New

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

Messages:

▸ **Rows with suppressed Deaths are hidden, but the Deaths and Population values in those rows are included in the totals. Use Quick Options above to show suppressed rows.**

County	Deaths	Population	Crude Rate Per 100,000
Cook County, IL (17031)	287	15,538,234	1.8
DuPage County, IL (17043)	18	2,739,454	Unreliable
Kane County, IL (17089)	18	1,530,979	Unreliable
Lake County, IL (17097)	18	2,101,873	Unreliable
McHenry County, IL (17111)	13	924,073	Unreliable
St. Clair County, IL (17163)	15	805,063	Unreliable
Will County, IL (17197)	14	2,023,922	Unreliable
Total	**519**	**38,374,448**	**1.4**

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.

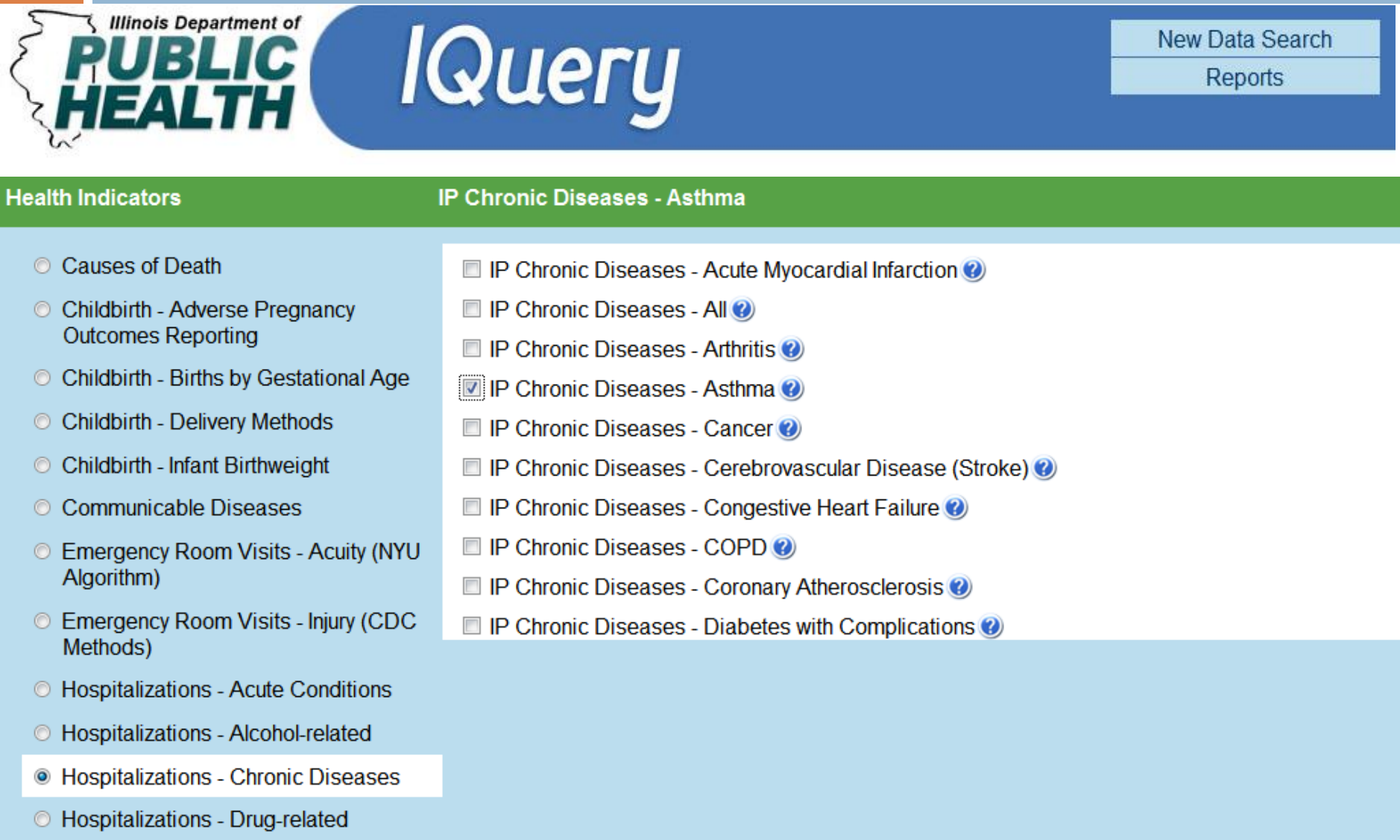
Hospitalizations

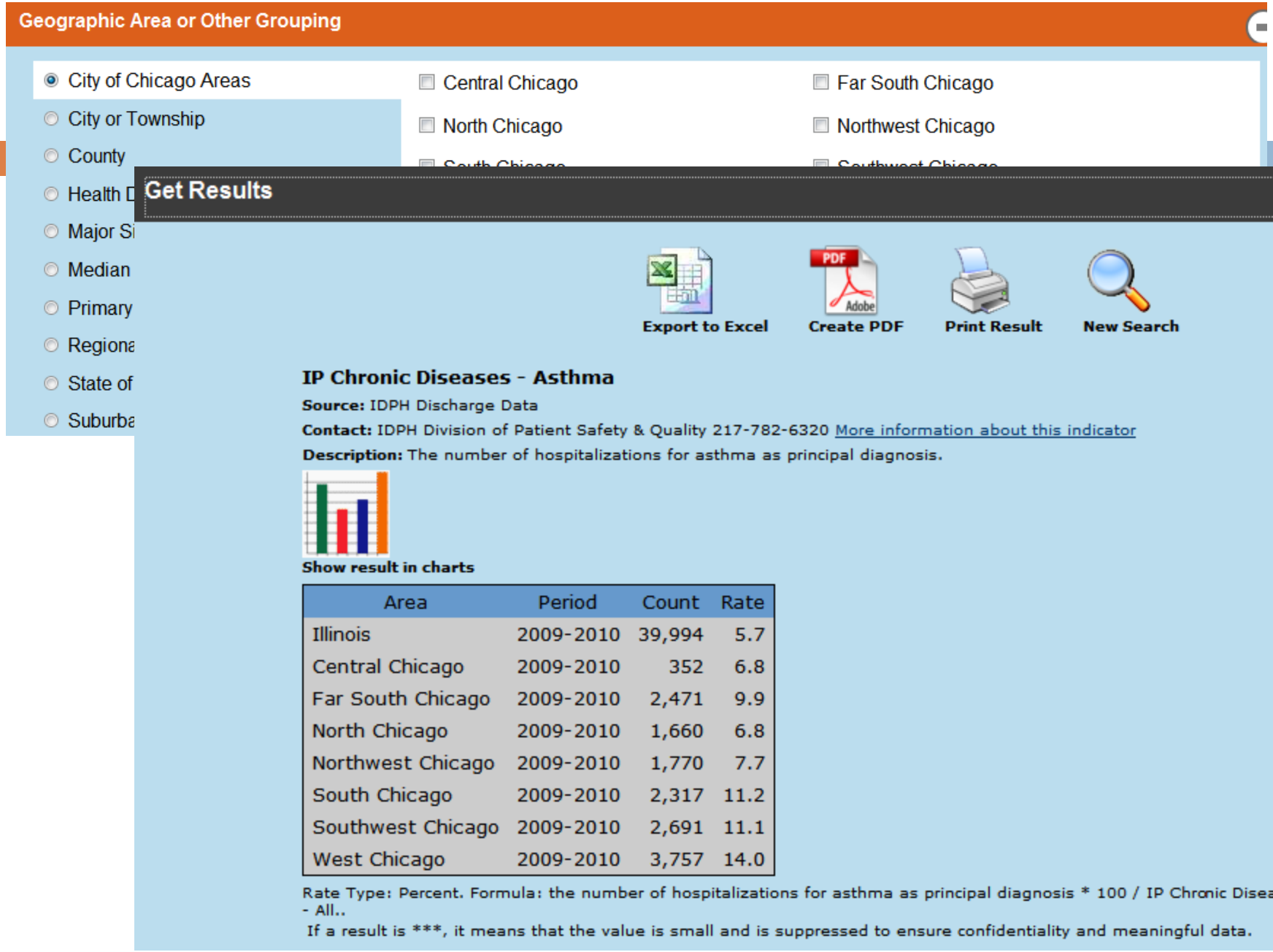
National and Regional (Midwest)

http://www.cdc.gov/nchs/nhds.htm

Hospitalizations

State and Local

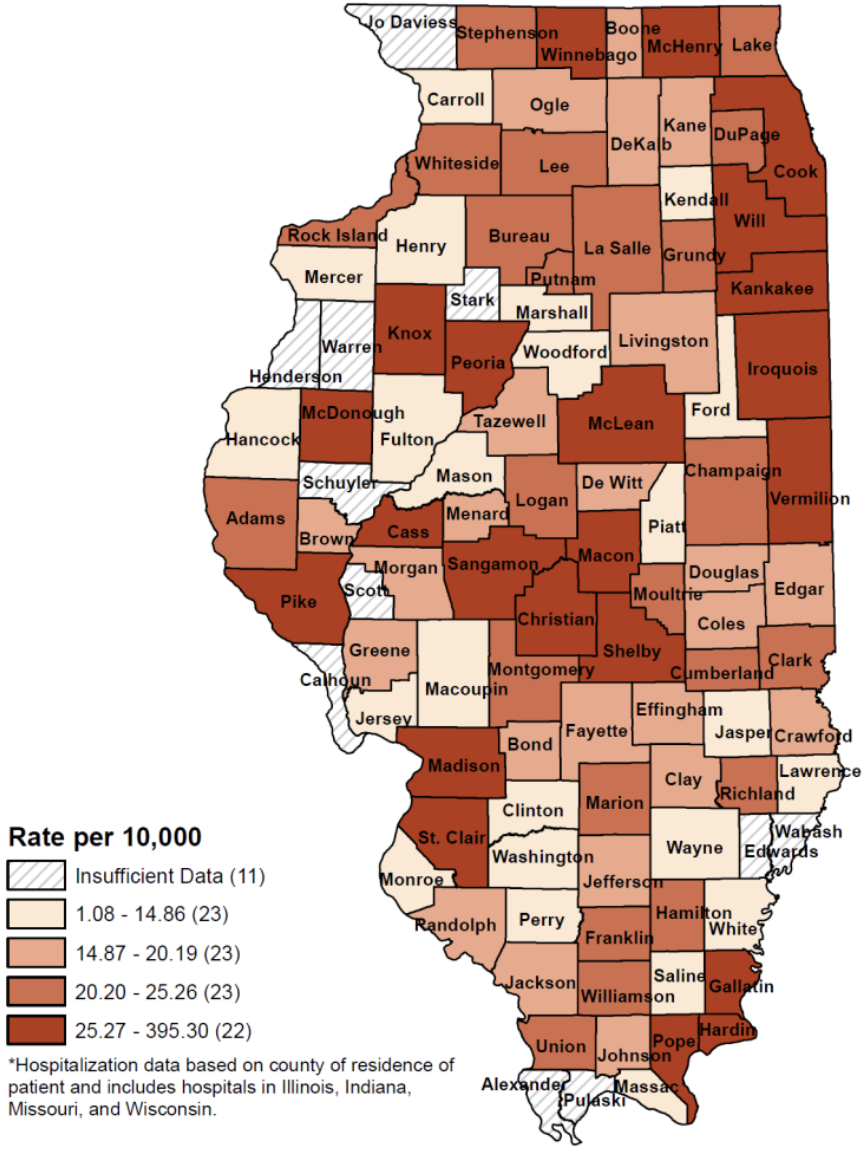



Geographic Area or Other Grouping
City of Chicago Areas
City or Township
County
Health D
Major Si
Median
Primary
Regiona
State of
Suburba
Central Chicago
North Chicago
Far South Chicago
Northwest Chicago
Get Results
Export to Excel
Create PDF
Print Result
New Search
IP Chronic Diseases - Asthma
Source: 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
Area Period Count Rate
Illinois 2009-2010 39,994 5.7
Central Chicago 2009-2010 352 6.8
Far South Chicago 2009-2010 2,471 9.9
North Chicago 2009-2010 1,660 6.8
Northwest Chicago 2009-2010 1,770 7.7
South Chicago 2009-2010 2,317 11.2
Southwest Chicago 2009-2010 2,691 11.1
West Chicago 2009-2010 3,757 14.0
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

Illinois Department of Public Health
Office of Health Promotion
2009-2010 Asthma Hospitalization* Rate per 10,000



Source: IDPH Division of Patient Safety and Quality, 2009-2010

ED Visits and Office Visits

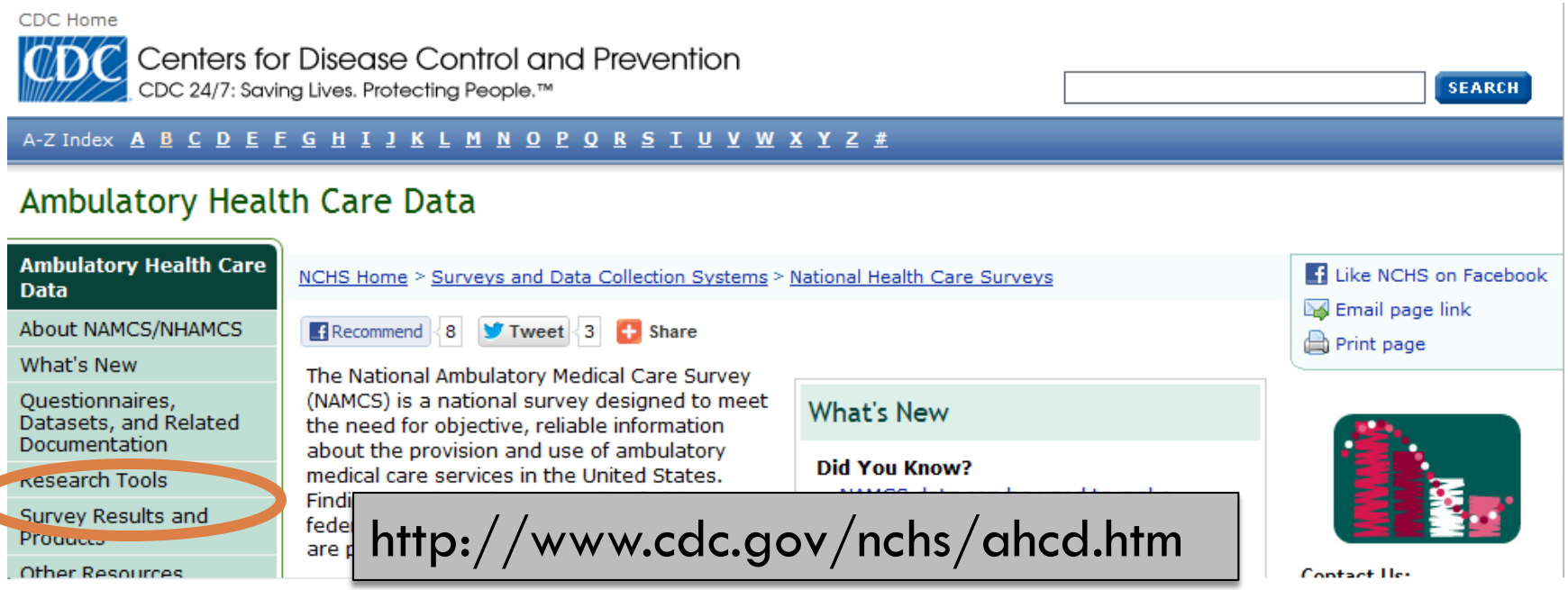
National

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

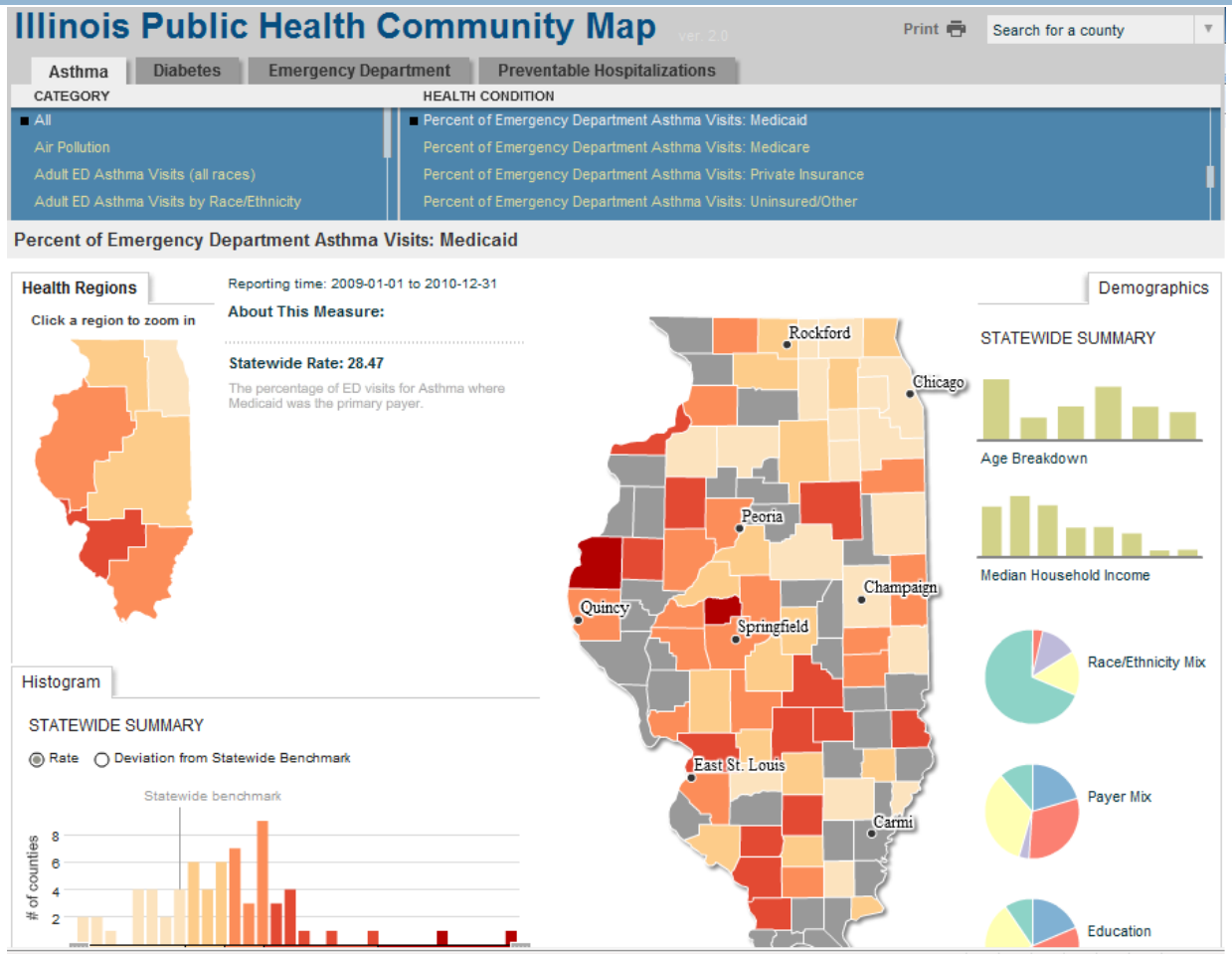
National Hospital Ambulatory Medical Care Survey (NHAMCS)

- 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



ED Visits

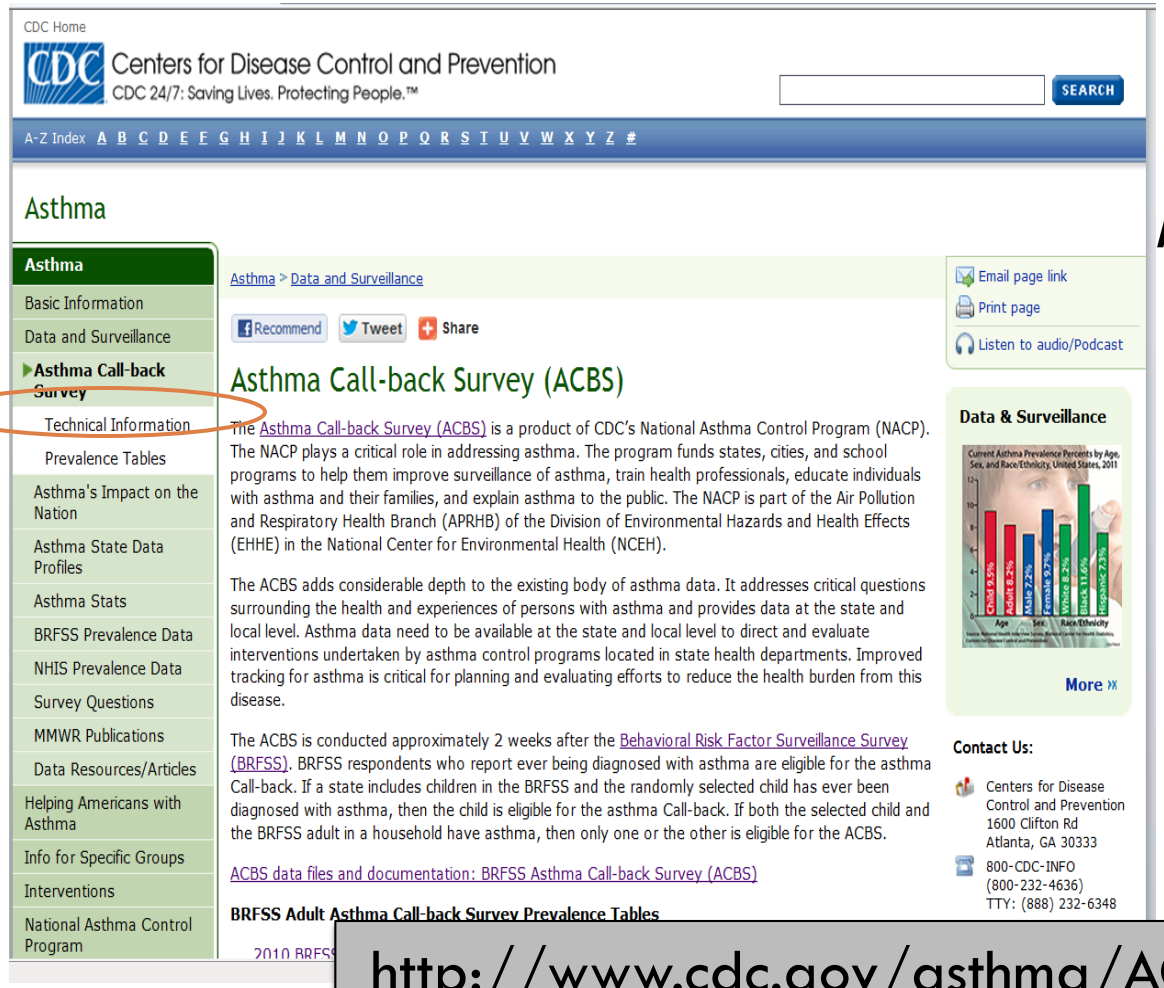
State and local



http://www.healthcarereportcard.illinois.gov/maps

BRFSS Asthma Call-back

National and State



Adult Web Tables

Child Web Tables

Multi-Year 2006-2010

Routine Visits

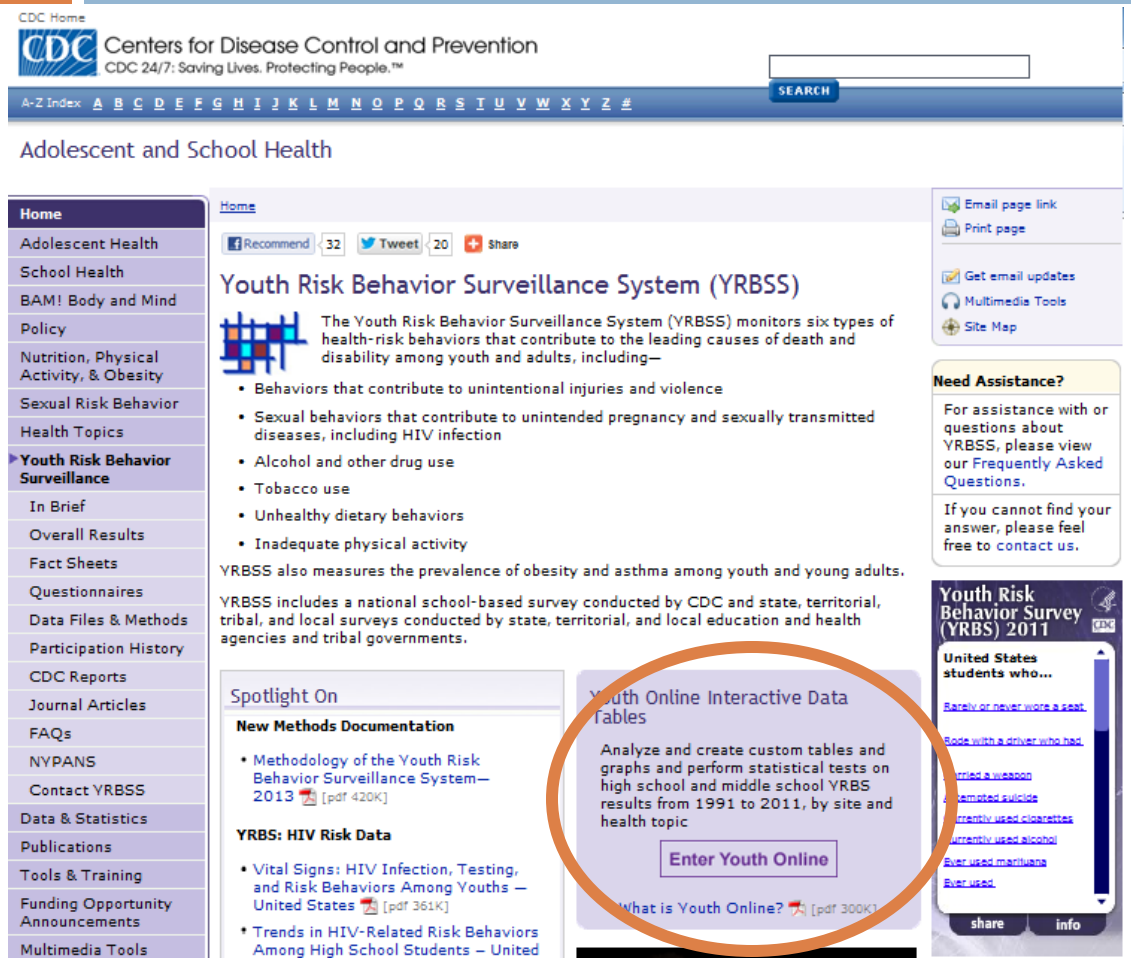
Asthma Attacks

Received Asthma Management Plan

http://www.cdc.gov/asthma/ACBS.htm

Youth Risk Behavior Survey (YRBS)

National and State



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

http://apps.nccd.cdc.gov/youthonline/App/Default.aspx

Youth Risk Behavior Survey (YRBS)

State and Local

http://www.chdl.org/yrbs.htm

Tobacco Surveys

State

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

T ▲ Top of Page

Tanning Facilities Law and Rules
Tanning Poster Sample and Order Information
Tattoo/body Art
Task Force on Health Planning Reform
Toxoplasmosis - CDC
Teen Births
Teeth, Brushing Your
Tetanus - PDF
Thimerosal Fact Sheet (See Mercury-Free Vaccine Act Exemption Declarations)
Ticks
Tick Prevention Poster
Timeline - A History of the Illinois Department of Public Health
Tobacco (Smoke-free Illinois)
Adult Tobacco Survey, 2005 | 2007
Chronic Disease Burden Update – Impact of Smoke-free Illinois Act
I Decide, The First Year, 2000 - 2001 - PDF
I Decide, The Second Year, 2001 - 2002 - PDF
Illinois Tobacco Quitline
Tobacco Facts - Oral Health
Tobacco-Free Communities Web site, Illinois
Youth Tobacco Survey, 2002 | 2005 | 2006 | 2008
Toxicology
Training and Conference Online Registration

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

Medicaid Data

CMS.gov
Centers for Medicare & Medicaid Services

Learn about your healthcare options | Search

Medicare | Medicaid/CHIP | Medicare-Medicaid Coordination | Insurance Oversight | Innovation Center | Regulations and Guidance | Research, Statistics, Data and Systems | Outreach and Education

Home > Research, Statistics, Data and Systems > Chronic Conditions > State Reports

Chronic Conditions

- Chartbook
- Geographic Data
- Dashboard

State Reports

The Centers for Medicare & Medicaid Services (CMS) has develc
conditions and multiple chronic conditions as well as utilization a
chronic conditions for the 50 U.S. states and Washington, DC.

These state reports on chronic conditions are available for the ye
15 common chronic conditions among Medicare beneficiaries an
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]

Prevalence of Specific Chronic Conditions among Medicare FFS Beneficiaries by State: 2007-2011

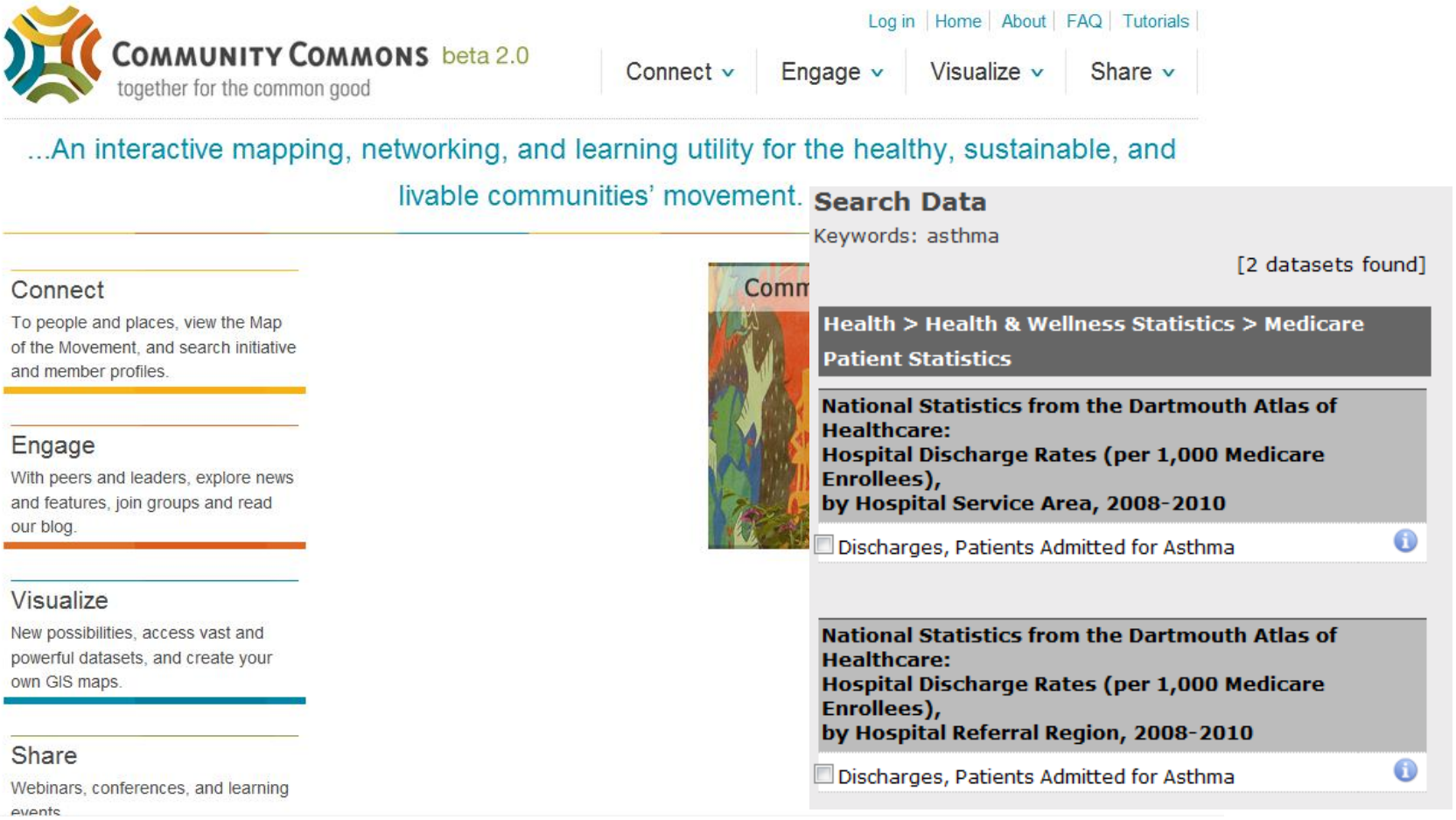
Asthma

State	Asthma 2007	2008	2009	2010	2011
National	*4.3%*	*4.5%*	*4.6%*	*4.7%*	*4.7%*
Alabama	4.1%	4.3%	4.4%	4.5%	4.4%
Alaska	3.8%	3.7%	3.8%	3.6%	3.6%
Arizona	4.5%	4.6%	4.8%	4.9%	4.9%
Arkansas	3.4%	3.4%	3.5%	3.5%	3.4%
California	4.8%	5.0%	5.1%	5.2%	5.1%
Colorado	3.9%	3.9%	4.0%	4.1%	4.1%
Connecticut	5.0%	5.1%	5.3%	5.5%	5.3%
Delaware	4.6%	4.7%	4.9%	4.9%	5.1%
District of Columbia	4.7%	4.7%	5.0%	5.6%	5.7%
Florida	4.4%	4.6%	4.7%	4.9%	4.9%
Georgia	3.9%	4.1%	4.3%	4.3%	4.3%
Hawaii	4.9%	5.1%	5.1%	5.3%	5.0%
Idaho	3.8%	3.9%	4.0%	4.1%	4.1%
Illinois	4.3%	4.5%	4.7%	4.9%	4.9%
Indiana	4.0%	4.1%	4.2%	4.3%	4.4%
Iowa	3.1%	3.2%	3.3%	3.3%	3.2%

http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CCStateReports.html

Community Commons

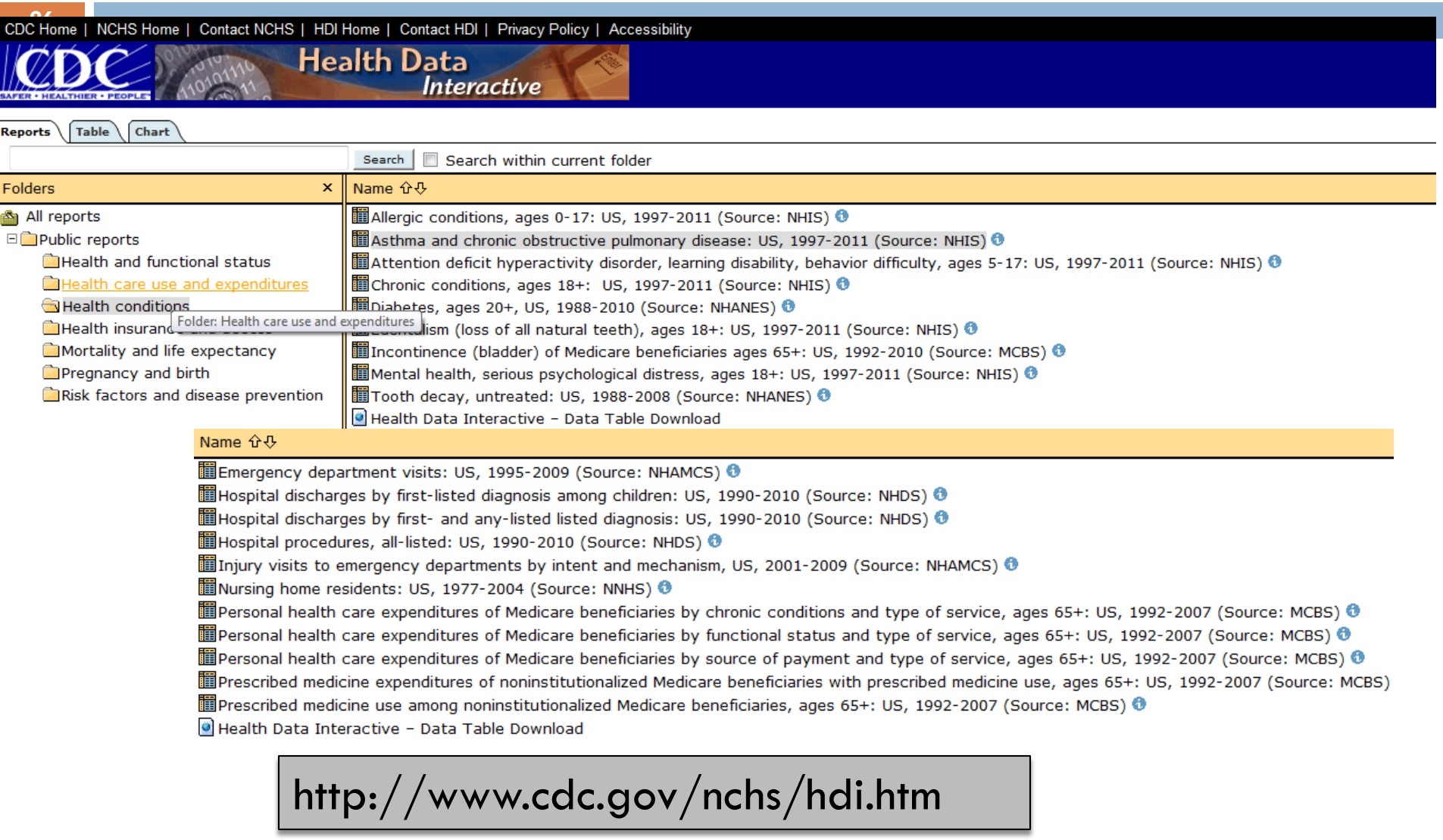
Local



http://www.communitycommons.org/

Health Data Interactive

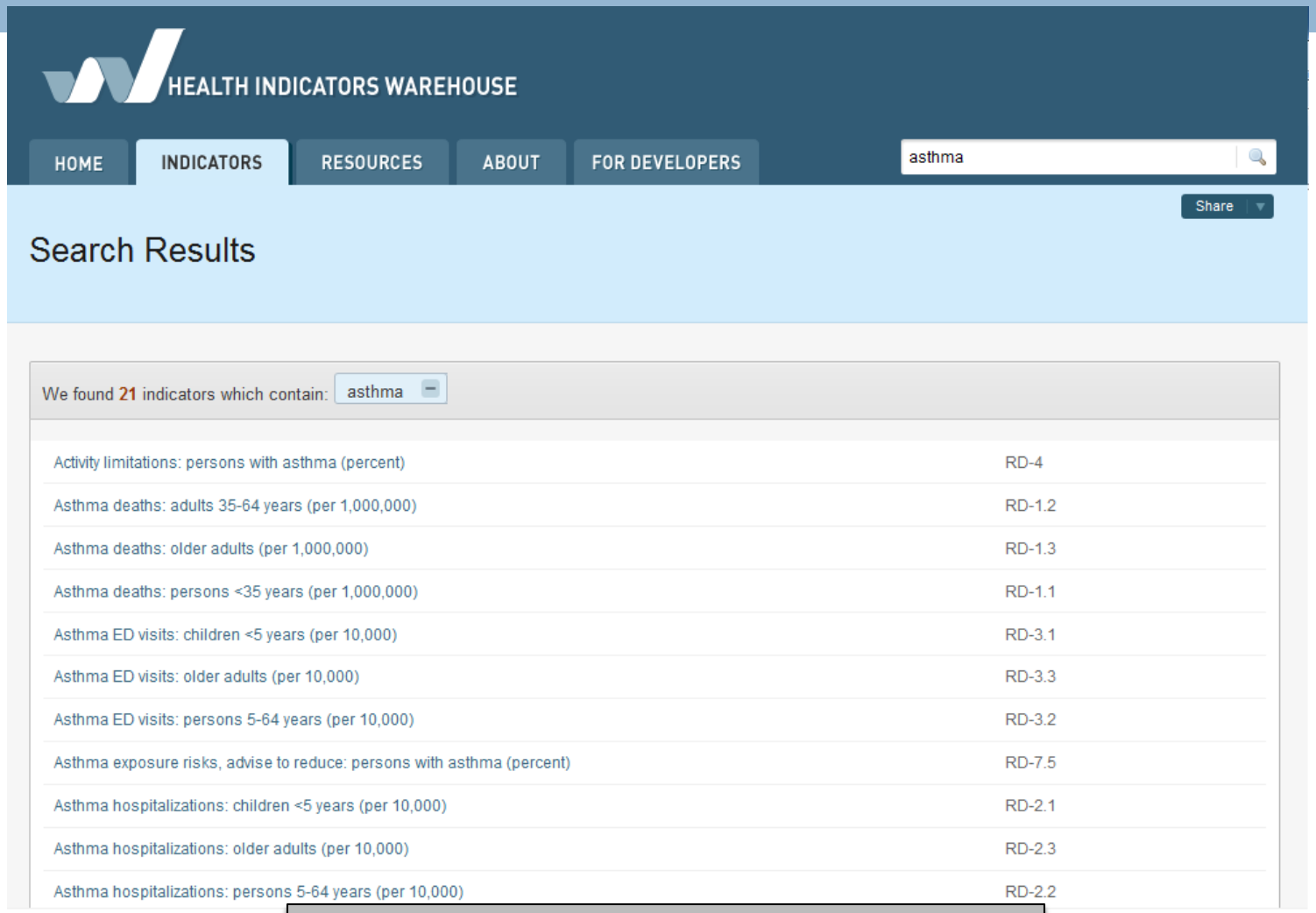
National



http://www.cdc.gov/nchs/hdi.htm

Health Indicators Warehouse

National



http://healthindicators.gov/

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
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