

CDC Air Pollution and Respiratory Health Branch

<https://www.cdc.gov/nceh/airpollution/>

They use CDC data sources for reporting prevalence.

CDC National Center for Environmental Health:

<https://www.cdc.gov/nceh/>

They use CDC data sources for reporting prevalence. They have a nice presentation on prevalence of asthma in the US (Check articles folder)

CDC National Environmental Public Health Tracking Network

<https://ephtracking.cdc.gov/showHome.action>

They use CDC data sources for reporting prevalence.

https://www.cdc.gov/asthma/links_data.html

List of journal article publications (they include both the CDC and Model papers)

CDC Child Asthma Data: Prevalence Tables

<https://www.cdc.gov/asthma/brfss/2010/brfsschilddata.htm>

<https://www.cdc.gov/brfss/acbs/index.htm> (link to data sets and questioners)

They provide the BRFSS Asthma Call-back Survey Prevalence Tables from year 2006 to 2014 by state. However the number of participating states changes year by year, I suggest we impute the missing values of incidence rates for the states over time.

US Department of Health and Human Services

<https://www.hhs.gov/>

Nothing of interest.

National Health and Nutrition Examination Survey

<https://www.cdc.gov/nchs/nhanes/index.html>

NHANES data set, they only have questions relative to prevalence and complication rates. The NHANES is an evolving questionnaire, we can suggest adding a question (have you been diagnosed with asthma during the past 12 months)

General asthma data sources

http://www.cehtp.org/fag/asthma/asthma_where_to_find_data

http://www.cehtp.org/fag/asthma/asthma_where_to_find_data#faq_1_0

Provides links to all surveys and data sets related to asthma both on a national level and for state of California.

SLAITS – National Survey of Children’s Health

<https://www.cdc.gov/nchs/slaitns/nsch.htm>

Questioner only asked, ever diagnosed by doctor to have asthma? Currently have asthma? Is it severe?

National Longitudinal Surveys

<https://www.bls.gov/nls/handbook/nlshndbk.htm>

<https://www.nlsinfo.org/content/cohorts/nlsy79-children/topical-guide/asterisk>

Cohort (birth to 14) and (15 and older) of children born to mothers from a previous cohort. Questions for asthma were developed with the help of the CDC. Worth looking into it.

Texas Department of State Health Services

<https://www.dshs.texas.gov/asthma/data.shtm>

Environmental Defense Fund

<http://blogs.edf.org/texascleanairmatters/2016/08/01/asthma-in-texas/>

Blog.

Global burden of disease

See below.

Model building – NHIS model

See below for a suggested imputation method based on the linear regression model from the CDC-NHIS

National survey of children’s Health

No results of interest.

MMWR Indicators for Chronic Disease Surveillance – US 2013

Provides prevalence reports from the BRFSS and NSCH.

Data.gov & HealthData.gov

Provides prevalence results from BRFSS and NSCH.

GBD

Definitions:**Incidence**

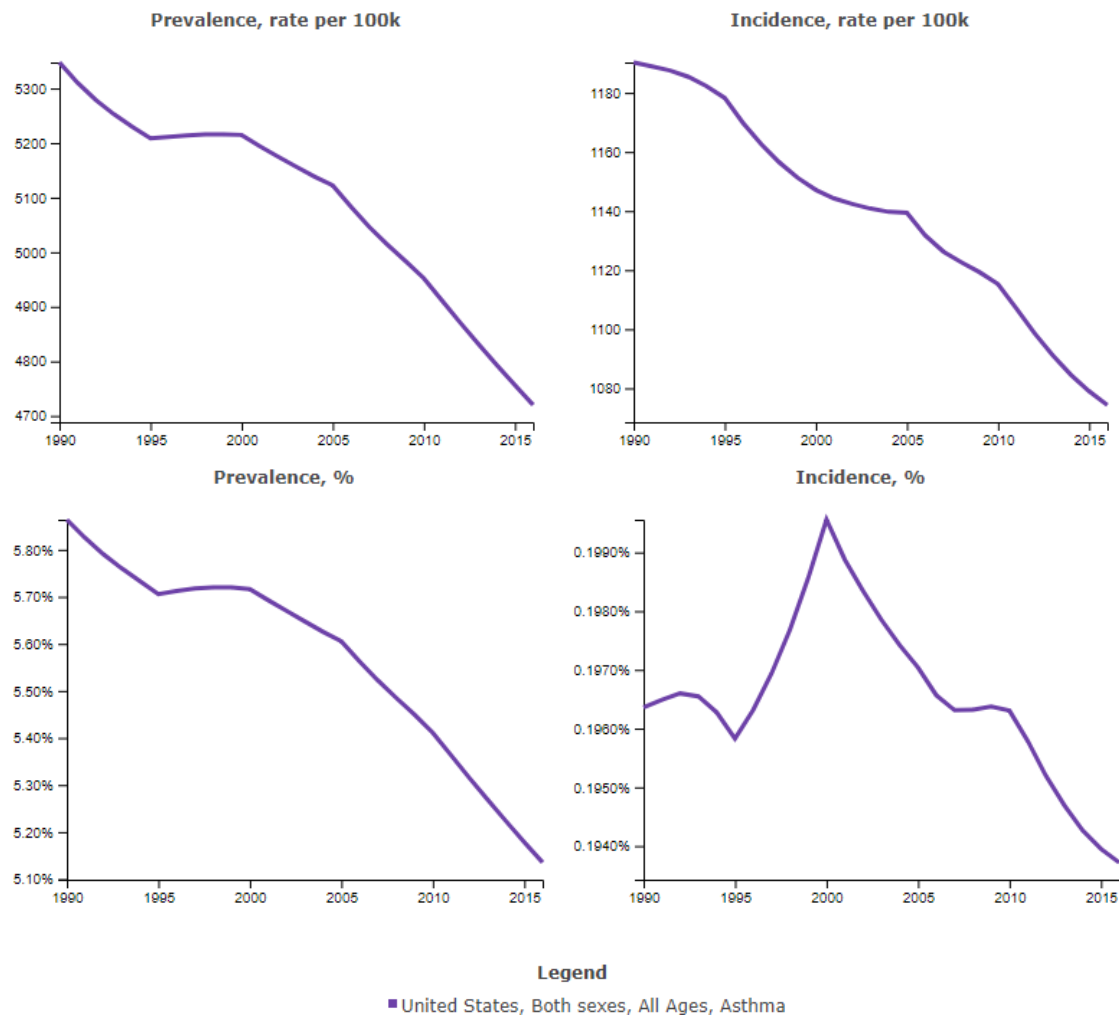
The number of new cases of a given disease during a given period in a specified population. It also is used for the rate at which new events occur in a defined population. It is differentiated from prevalence, which refers to all cases, new or old, in the population at a given time

Prevalence

The total number of cases of a given disease in a specified population at a designated time. It is differentiated from INCIDENCE, which refers to the number of new cases in the population at a given time.

Rate per 100K

This estimate shows in a single country-year-age-sex, the deaths due to cause X divided by the population



CDC Model – NHIS survey

Using the linear regression formula from the NHIS paper, the expected incidence rates (1980-2010). The average incidence rate among children for years 2006 - 2008 = $(13.99+14.31+14.95)/3 = 14.42$ compared to 12.5 we have. The authors mentioned that there is a discrepancy of about 1.7 when using the BRFSS vs NHIS. This model is using the NHIS data.

	Total US		Adults		Children	
	Per 1k	Per 100k	Per 1k	Per 100k	Per 1k	Per 100k
1980	2.58	258	1.25	125	5.67	567
1981	2.78	278	1.42	142	5.99	599
1982	2.98	298	1.59	159	6.31	631
1983	3.18	318	1.76	176	6.63	663
1984	3.38	338	1.93	193	6.95	695
1985	3.58	358	2.1	210	7.27	727
1986	3.78	378	2.27	227	7.59	759
1987	3.98	398	2.44	244	7.91	791
1988	4.18	418	2.61	261	8.23	823
1989	4.38	438	2.78	278	8.55	855
1990	4.58	458	2.95	295	8.87	887
1991	4.78	478	3.12	312	9.19	919
1992	4.98	498	3.29	329	9.51	951
1993	5.18	518	3.46	346	9.83	983
1994	5.38	538	3.63	363	10.15	1015
1995	5.58	558	3.8	380	10.47	1047
1996	5.78	578	3.97	397	10.79	1079
1997	5.98	598	4.14	414	11.11	1111
1998	6.18	618	4.31	431	11.43	1143
1999	6.38	638	4.48	448	11.75	1175
2000	6.58	658	4.65	465	12.07	1207
2001	6.78	678	4.82	482	12.39	1239
2002	6.98	698	4.99	499	12.71	1271
2003	7.18	718	5.16	516	13.03	1303
2004	7.38	738	5.33	533	13.35	1335
2005	7.58	758	5.5	550	13.67	1367
2006	7.78	778	5.67	567	13.99	1399
2007	7.98	798	5.84	584	14.31	1431
2008	8.18	818	6.01	601	14.63	1463
2009	8.38	838	6.18	618	14.95	1495
2010	8.58	858	6.35	635	15.27	1527

