

Introduction

Asthma:

- is a chronic disease of the lungs
- · affects adults and children of all ages
- is characterized by repeated episodes of wheezing, breathlessness, chest tightness, and nighttime or early morning coughing

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- In most cases, we don't know the exact causes of asthma and we don't know how to cure it
- Most people with asthma can control their symptoms by:
 - $\,\circ\,$ avoiding things that trigger an asthma attack and
 - o receiving appropriate medical care
- Without proper management, asthma can result in frequent emergency department (ED) visits, hospitalizations, and premature deaths

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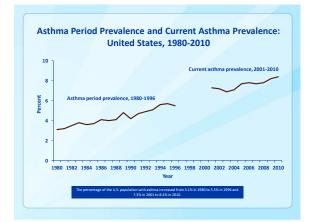
Asthma:

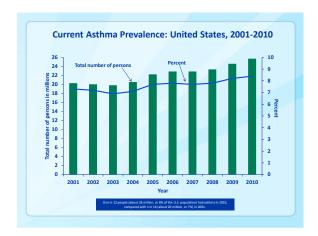
- affects 25.7 million people, including 7.0 million children under 18
- is a significant health and economic burden to patients, their families, and society
 - 1.8 million people visited an ED for asthma-related care (2017)
 - 439,000 people were hospitalized because of asthma (2017)
 - 3564 people died from asthma

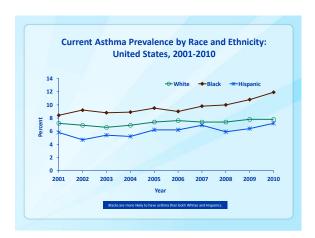
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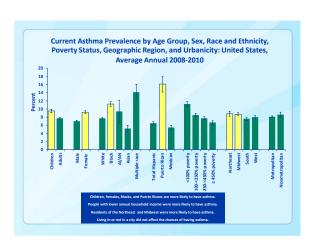
Asthma prevalence is an estimate of the percentage of the U.S. population with asthma. Prevalence estimates help us understand the burden of asthma on the nation.

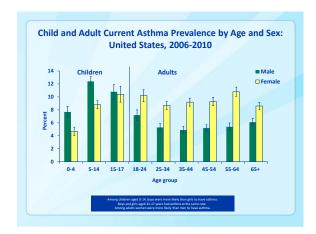
- Asthma "period prevalence" is the percentage of the U.S. population that had asthma in the previous 12 months.
- "Current" asthma prevalence is the percentage of the U.S. population who had been diagnosed with asthma and had asthma at the time of the survey.
- Asthma "period prevalence" was the original prevalence measure (1980-1996).
 The survey was redesigned in 1997 and this measure was replaced by lifetime prevalence (not presented in slides) and asthma episode or attack in the past 12 months. In 2001, another measure was added to assess current asthma prevalence.

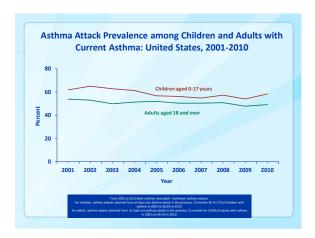


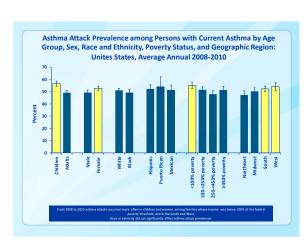


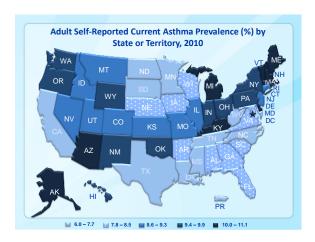












Technical Notes

Asthma Period Prevalence and Current Asthma Prevalence: Estimates of asthma prevalence indicate the percentage of the population with asthma at a given point in time and represent the burden on the U.S. population.

Asthma prevalence data are self-reported by respondents to the National Health Interview Survey (NHIS), Asthma period prevalence was the original measure (1980-1996) of U.S. asthma prevalence and estimated the percentage of the population that had asthma in the previous 12 months. From 1997-2000, a redesign of the NHIS questions resulted in a break in the trend data as the new questions were not fully comparable to the previous questions. Beginning in 2001, current asthma prevalence (measured by the question, "Do you still have asthma?" for those with an asthma diagnosis) was introduced to identify all persons with asthma. Current asthma prevalence estimates from 2001 onward are point prevalence (previous 12 months) estimates and therefore are not directly comparable with asthma period prevalence estimates from 1980 to

Behavioral Risk Factor Surveillance System (BRFSS): State asthma prevalence rates on the map come from the BRFSS. The BRFSS is a state-based, random-digit-dialed telephone survey of the nonstrutionalized ovillan population 18 years of age and older. It monitors the prevalence of the major behavioral risks among adults associated with premature illness and death. Information from the survey is used to improve the health of the American people. More information about BRFSS can be found at: http://www.cdc.gov/brfss/.

Sources

National Surveillance of Asthma: United States, 2001-2010

- Asthma Period Prevalence and Current Asthma Prevalence: United States, 1980-2010, Adapted from
 - Figure 26 in National Surveillance of Asthma: United States, 2001-2010.

 For comparison among population subgroups, percentages were adjusted by a standard population.
- Current Asthma Prevalence: United States, 2001-2010. See Figure 1 in <u>National Surveillance of</u> Asthma: United States, 2001-2010.

 - For comparison among population subgroups, percentages were adjusted by age using the 2000 U.S. Census standard population. See Table 1 for underlying data.
- Current Asthma Prevalence by Race and Ethnicity: United States, 2001-2010. See Table 1 for underlying data in National Surveillance of Asthma: United States, 2001-2010.
- o For comparison standard popul
- egories 'White' and 'Black' include only those with a single race. Persons of Hispanic origin may be of
- Current Asthma Prevalence by Age Group, Sex, Race and Ethnicity, Poverty Status, Geograph Region, and Urbanicity: United States, Average Annual 2008-2010. See Figure 2 in <u>National</u> <u>Surveillance of Asthma: United States, 2001-2010.</u>

 - The categories 'Puerto Rican' and 'Mexican' are subcategories of Hispani

CDC National Center for Health Statistics, National Health Interview Survey (NHIS) Child and Adult Asthma Prevalence by Age and Sex: United States, 2006-2010. Crude (unadjusted) percentages are presented. Asthma Attack Prevalence among Children and Adults with Current Asthma (Risk-based): United States, 2001-2010. See Figure 5 in National Surveillance of Asthma: United States, 2001-2010. Crude (unadjusted) percentages are presented. See Table 5 for underlying data. Asthma Attack Prevalence among Persons with Current Asthma (Risk-based) by Age Group, Sex, Race and Ethnicity, Poverty Status, and Geographic Region: Unites States, Average Annual 2008-2010. See Figure 6 in National Surveillance of Asthma: United States, 2001-2010. 1 represents 975: Confidence interval. Crude (unadjusted) percentages are presented. See Table 6 for underlying data The categories 'Puerto Rican' and 'Mesican' are subcategories of 'Hispanic'. CDC Behavioral Risk Factor Surveillance System (BRFSS) Adult Current Asthma Prevalence by State or US Territory, 2010. See Table C1 for underlying data in 2010 Adult Asthma Data: Prevalence Tables and Maps.

