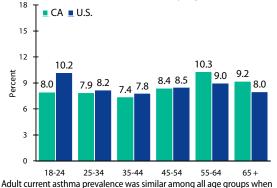
Asthma in California

Asthma is a chronic lung disease that affects an estimated 16.4 million adults (aged \geq 18 years)¹ and 7.0 million children (aged < 18 years)¹ in the United States (U.S.), regardless of age, sex, race, or ethnicity. Although the exact cause of asthma is unknown and it cannot be cured, it can be controlled with self-management education, appropriate medical care, and avoiding exposure to environmental triggers. The following data provide an overview of the burden of asthma in California (CA) compared with the U.S. **All stated comparisons (e.g., higher, lower, similar) indicate that the group is statistically significantly different than the reference group (e.g., adults aged 18-24 years, men, non-Hispanic whites, children aged 15-17 years, and boys).**

Asthma Prevalence

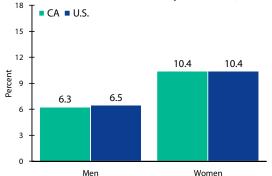
In 2008, an estimated 2,326,451 adults in California had asthma. Adult lifetime asthma prevalence was 13.8% and adult current asthma prevalence was 8.4% compared with U.S. rates of 13.3% and 8.5%, respectively².

Adult Current Asthma Prevalence by Age, BRFSS, 2008



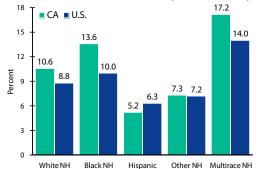
compared with adults aged 18-24 years in California; however, the rate was highest among adults aged 18-24 years throughout the U.S.

Adult Current Asthma Prevalence by Sex, BRFSS, 2008



Adult current asthma prevalence was higher among women than men in California. A similar pattern occurred throughout the U.S.

Adult Current Asthma Prevalence by Race/Ethnicity, BRFSS, 2008



Adult current asthma prevalence was higher among non-Hispanic multirace persons and lower among Hispanics and non-Hispanic persons of other races than non-Hispanic whites in California; however, rates were higher among non-Hispanic multirace persons and non-Hispanic blacks throughout the U.S.

National Center for Environmental Health

Division of Environmental Hazards and Health Effects

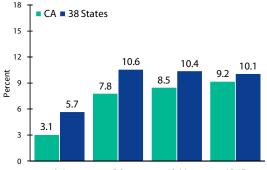
Child Current Asthma Prevalence by Age, BRFSS, 2008

states' rates of 13.3% and 9.0%, respectively².

In 2008, an estimated 644,122 children in California had asthma.

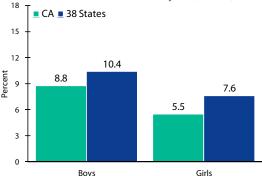
asthma prevalence was 7.1% compared with the 38 participating

Child lifetime asthma prevalence was 11.5% and child current



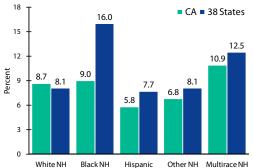
0-4 5-9 10-14 15-17 Child current asthma prevalence was lower among children aged 0-4 years than children aged 15-17 years in California. A similar pattern occurred throughout the 38 participating states.

Child Current Asthma Prevalence by Sex, BRFSS, 2008



Child current asthma prevalence was higher among boys than girls in California. A similar pattern occurred throughout the 38 participating states.

Child Current Asthma Prevalence by Race/Ethnicity, BRFSS, 2008

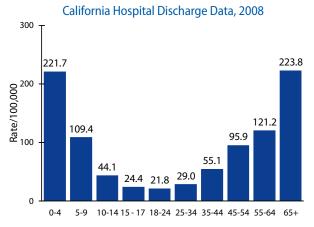


Child current asthma prevalence was lower among Hispanics than non-Hispanic whites in California; however, rates were higher among

non-Hispanic blacks and non-Hispanic multirace persons throughout the 38 participating states.



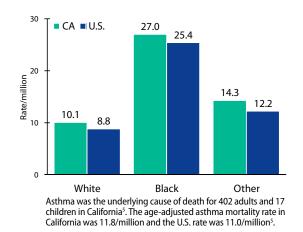
Asthma Hospitalizations



The age-adjusted asthma hospitalization rate in California was 94.2/100,000 persons³ compared with the U.S. rate of 144/100,000 persons⁴. In California, the hospitalization rate for children was 109.3/100,000 persons³ and for adults was 87.3/100,000 persons³.

Asthma Deaths

Age-Adjusted Asthma Mortality Rate by Race, NVSS, 2007



Asthma Patient Education and Medication Use

The National Heart, Lung, and Blood Institute (NHLBI) Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma includes recommendations by medical and public health experts to aid in the clinical practice of managing asthma. The NHLBI Guidelines focus on four areas of asthma management and care: Assessment and Monitoring, Patient Education, Control of Environmental Factors Contributing to Asthma Severity, and Pharmacologic Treatment. Items included in the following table are related to asthma patient education and medication use for adults with current asthma in California.

Patient Education: Adults with Current Asthma ⁶	Respondents	Yes
Ever taught how to recognize early signs or symptoms of an asthma episode	410	62%
Ever told what to do during an asthma attack	409	74%
Ever taught how to use a peak flow meter to adjust daily medications	410	49%
Ever given an asthma action plan	409	28%
Ever taken a course on how to manage asthma	411	13%

Medication Use: Adults with Current Asthma ⁶	Respondents	Yes
Used a prescription asthma medication in the past 3 months ⁷	402	63%

NOTES:

- 1. National Health Interview Survey (NHIS), 2008
- 2. Behavioral Risk Factor Surveillance System (BRFSS), 2008; National Survey of Children's Health (NSCH), 2007
- When the sample size is fewer than 50, prevalence estimates are considered unstable and should be interpreted with caution. Indicated with an asterisk (*) All stated comparisons (e.g., higher, lower, similar) indicate that the group is statistically significantly different than the reference group (e.g., adults aged 18-24 years, men, non-Hispanic whites, children aged 15-17 years, and boys).
- 3. State Hospital Discharge Data, 2008

4. National Hospital Discharge Survey, 2008

- When estimates are based on fewer than 60 hospitalizations, they are considered unstable and should be interpreted with caution. Indicated with an asterisk (*) 5. National Vital Statistics System (NVSS), 2007
- When estimates are based on fewer than 20 deaths in the numerator, they are considered unstable and should be interpreted with caution. Indicated with an asterisk (*)
 When estimates are based on fewer than 10 deaths in the numerator, data are suppressed due to confidentiality. Indicated with double asterisks (**)
 Asthma Call-back Survey. 2008
- 6. Asthma Call-back Survey, 2008
- 7. Medication includes inhalers, pills, syrups, and nebulizers.

CDC's National Asthma Control Program For more information on asthma: http://www.cdc.gov/asthma http://www.cdph.ca.gov/programs/caphi/Pages/default.aspx