Asthma Facts and Figures

What Is Asthma?

- **Asthma** is a chronic (long-term) disease that causes inflammation and swelling of the airways. This results in narrowing of the large and small airways that carry air from the nose and mouth to the lungs.
- **Asthma symptoms** include trouble breathing (shortness of breath), wheezing, coughing, and tightness or pain in the chest.
- Asthma symptoms can be triggered by different things for different people. Allergens, like seasonal pollen, mold spores, dust, or pet dander, are common triggers. Some people also develop asthma symptoms in response to respiratory infections, airway irritants, pollution, weather changes, certain foods, or with exercise.
- Asthma can be deadly if it is not recognized and managed appropriately.
- There is no cure for asthma, but appropriate education and treatment prevents asthma attacks and can help you have a better quality of life.
- Asthma is one of the most common and costly diseases in the United States.

How Common Is Asthma?

- Over 27 million people in the U.S. have asthma. This equals about 1 in 12 people.¹,²
- Over 22 million U.S. adults ages 18 and older have asthma.¹
- Asthma rates are highest in American Indian or Alaska Native adults in the U.S.¹
- Asthma is more common in female adults than male adults. Around 10.8% of female adults have asthma, compared to 6.5% of male adults.¹
- It is a leading chronic disease in children.³ Currently, there are about 4.5 million children under the age of 18 with asthma.²
- Non-Hispanic Black children are nearly 2 times more likely to have asthma compared to non-Hispanic White children.²
- Asthma is more common in male children than female children. Around 7.0% of male children have asthma, compared to 5.4% of female children.²

What Are the Rates of Asthma Attacks in Children?

- In 2021, 38.7% of children ages 18 and younger who had asthma reported having one or more asthma attacks in the past year.⁴
  - About 63.1% of children under the age of 5 with asthma had an attack.⁴
According to the Centers for Disease Control and Prevention (CDC), asthma attacks in children have declined from 2001 through 2020 (from 61% to 43%). Even though asthma is controllable, it is estimated that 44% of children with asthma have uncontrolled asthma.

What Are the Rates of Asthma Attacks in Adults?

- In 2021, 39.6% of adults ages 18 and older who had asthma reported having one or more asthma attacks in the past year.
- According to the CDC, asthma attacks in adults have declined from 2001 through 2020 (from 54% to 41%).

How Many People Seek Medical Care for Asthma?

- In 2019, asthma accounted for 4.9 million doctors’ office visits.
- In 2020, asthma accounted for 94,560 discharges from hospital inpatient care and 986,453 emergency department visits.
- Black people in the U.S. are nearly 6 times more likely than White people in the U.S. to visit the emergency department due to asthma.

How Many People Die from Asthma?

- On average, 10 people in the U.S. die from asthma each day. In 2021, 3,517 people died from asthma. Nearly all of these deaths are avoidable with the right treatment and care.
  - In 2020, deaths due to asthma rose for the first time in 20 years.
- Adults are 6 times more likely to die from asthma than children.
- Female adults are more likely to die from asthma than male adults, and male children are more likely than female children.
- Black people in the U.S. are nearly 3 times more likely to die from asthma than White people in the U.S.
- When sex is factored in, Black females have the highest rate of fatality due to asthma. In 2021, Black females were more than 3 times more likely to die from asthma than White males.

What Are the Costs of Asthma?

- From 2008–2013, the annual economic cost of asthma was more than $81.9 billion – including medical costs and loss of work and school days.
Why Do Certain Racial or Ethnic Groups Have Higher Rates of Asthma, Asthma Attacks, or Asthma Deaths?

See AAFA’s groundbreaking research report on *Asthma Disparities in America*. Racial and ethnic differences in asthma frequency, illness, and death are caused by complex factors, including:

- **Structural determinants** such as systemic racism, segregation, and discriminatory policies
- **Social determinants** such as socioeconomic status, education, neighborhood and physical environment, employment, social support networks, and access to health care
- **Biological determinants** such as genes and ancestry
- **Behavioral determinants** such as tobacco use and adherence to medicines
- Social determinants and structural inequities (systemic racism) largely drive disparities in asthma. Factors such as genetics and individual behaviors contribute less to asthma disparities.

Why Do Males and Females Have Different Rates of Asthma?

- Male children are more likely to have asthma than female children. This trend reverses in adulthood, where female adults are more likely to have asthma than male adults.\(^2\)
- Some studies suggest this trend reverses because of the effects of testosterone on lung cells. Testosterone, a male sex hormone, has been found to decrease the swelling of the airways in asthma.\(^13\)
References


