

What is Asthma?

Asthma is a chronic lung disease that affects an estimated 16.4 million adults and 7.0 million children in the United States, regardless of age, sex, race, or ethnicity.

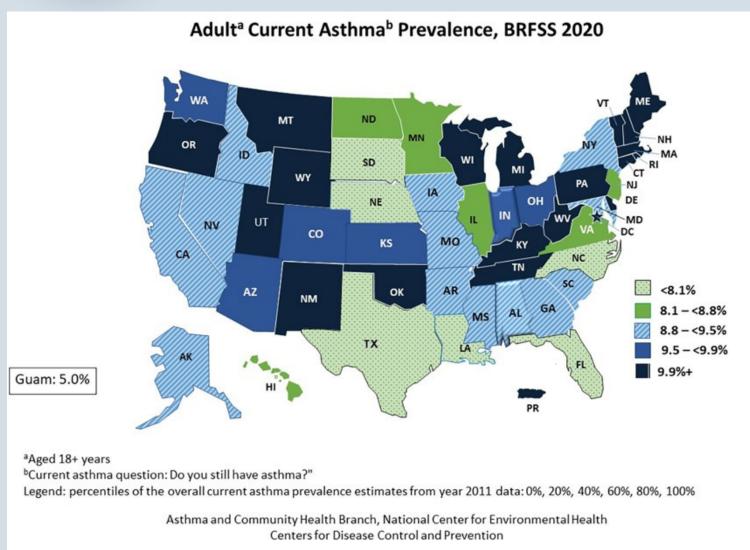


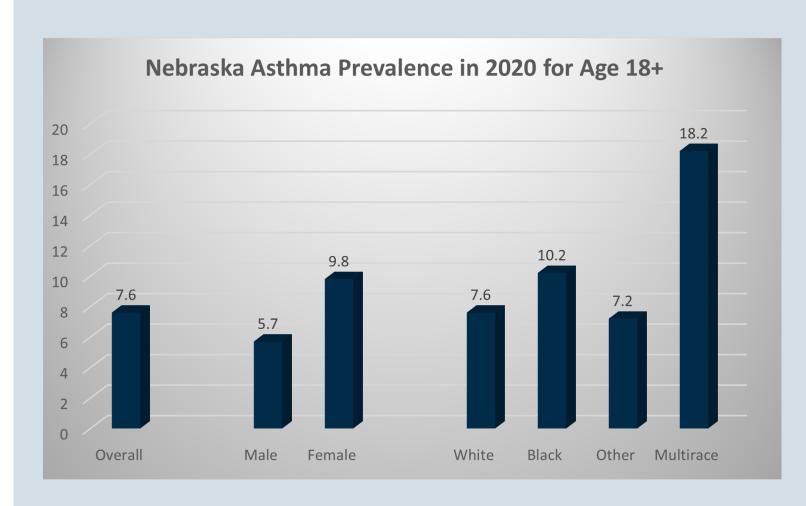


When <u>asthma symptoms</u> appear and are diagnosed in adults older than age 20, it is typically known as adult-onset asthma. About half of adults who have <u>asthma</u> also have <u>allergies</u>. Adult-onset <u>asthma</u> also may be the result of commonplace irritants in the workplace (called <u>occupational asthma</u>) or home environments, and the asthma symptoms come on suddenly.



FACTS & FIGURES



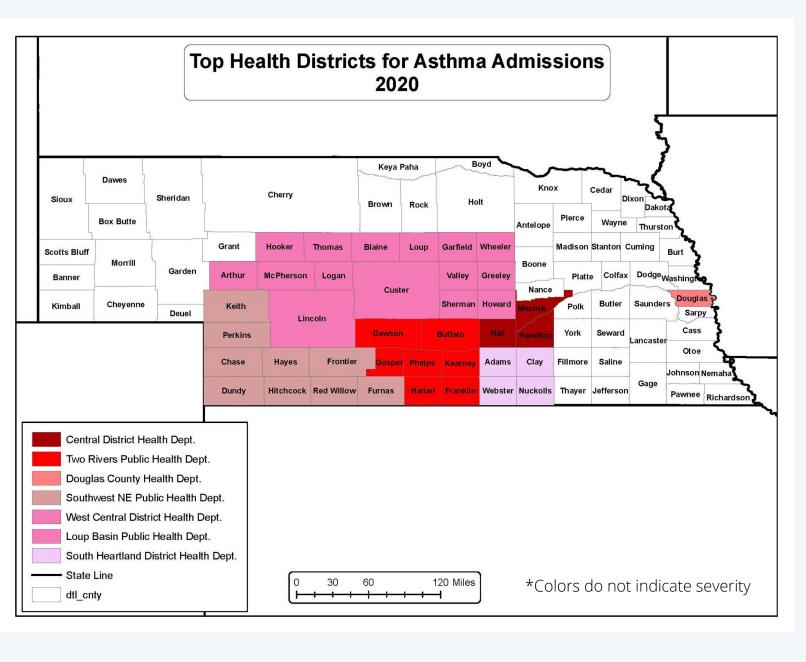


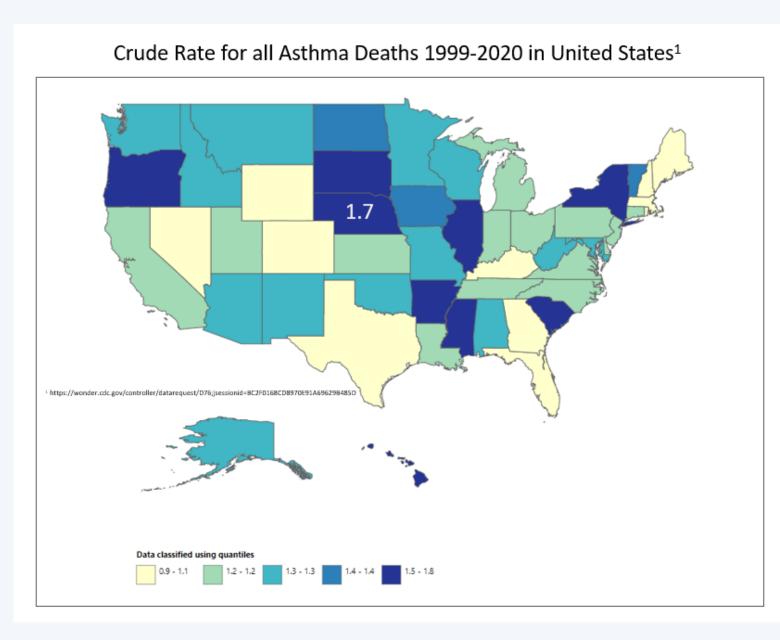
- Nebraska has a high population adjusted asthma death rate from 1990-2020.
- Nebraska currently does not have Federal Asthma grant funds.
- In 2019, asthma admissions were most common in the following health districts:
 - Central District Health Department
 - Two Rivers Health Department
 - Southeast District
 - Douglas County
 - West Central Health Department.

- In 2020, asthma admissions fell compared to 2019, largely due to COVID restrictions. The top districts for admissions were:
 - Central District Health Department
 - Two Rivers Health Department
 - Southeast District
 - Douglas County
 - West Central Health Department
 - Southwest Nebraska Public Health Department
 - Loup Basin

NEBRASKA ASTHMA ADMISSION DATA 2020

ASTHMA DEATHS IN NEBRASKA 2020





ASTHMA INFORMATION FOR PHYSICIAN AND HEALTH CARE PROVIDERS

In the United States asthma severity and medication guidelines have been provided from the National Heart, Lung and Blood Institute Guidelines. The EPR-3 guidelines are available at:

https://www.nhlbi.nih.gov/health-topics/guidelines-for-diangosis-management-of-asthma.

A brief summary is listed below:

SEVERITY: Intermittent, mild persistent, moderate persistent, severe persistent: Additive for severity: asthma symptoms, nocturnal awakening, use of albuterol (if already prescribed), ability to do exercise or activities.

Severity: Exacerbations having required oral corticosteroids: ≤ 2 in 12 months is persistent.

Severity: Pulmonary function test for all patients capable of performing. Forced Expiratory Volume at 1 second (FEV1) and FEV1/FVC (Forced Vital Capacity) are the critical components: Age range and levels in guidelines. > 80% FEV1 60-80% FERV1, and < 60% FEV1 are critical levels for persistent.

Medications: Rank Scale for Persistent: Inhaled coritcosteroids low dose, ICS low plus Long-Acting Bronchodilator (LABA), ICS medicum, ICS medium + LABA, ICS high +LABA.

Medications: Leukotriene modifiers (LM), Theophylline, short or long acting muscarinic antagonists, Biologics are add-on therapies based on severity and/or allergies (LM).

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