

**Pneumonia**

Alveoli fill with thick fluid, making gas exchange difficult.

**Bronchitis**

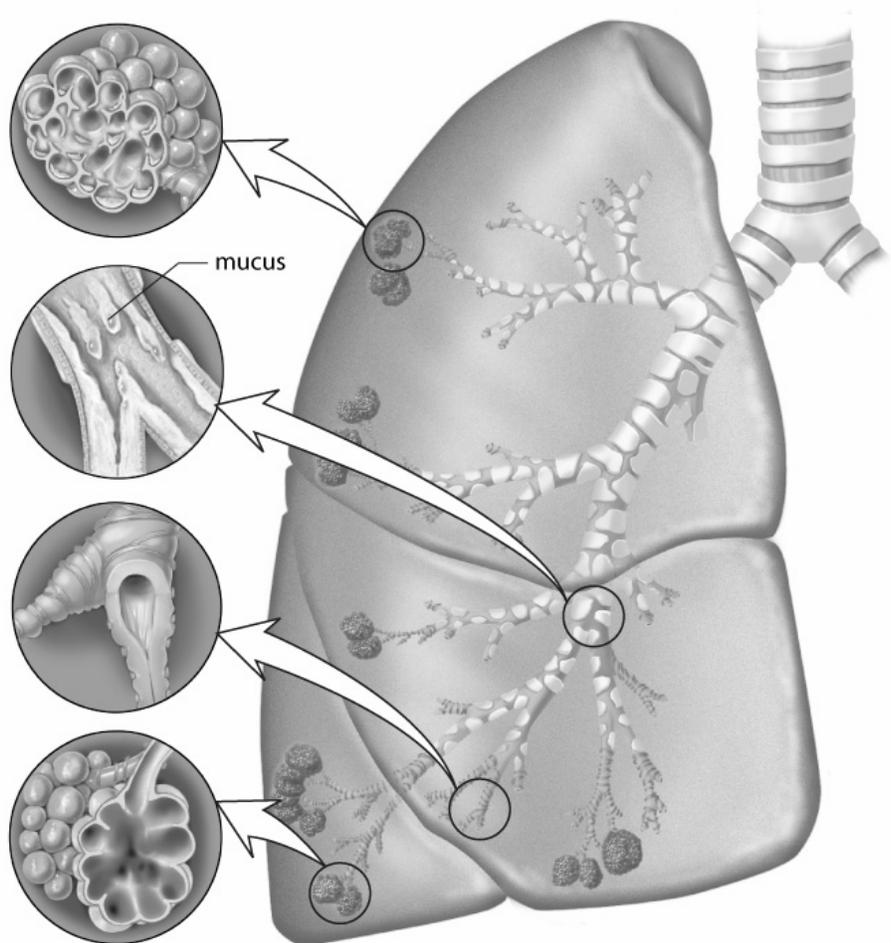
Airways are inflamed due to infection (acute) or due to an irritant (chronic). Coughing brings up mucus.

**Asthma**

Airways are inflamed due to irritation, and bronchioles constrict due to muscle spasms.

**Emphysema**

Alveoli burst and fuse into enlarged air spaces. Surface area for gas exchange is reduced.



Exposure to infectious pathogens and/or air pollutants, including cigarette and cigar smoke, often cause the disorders shown here.