

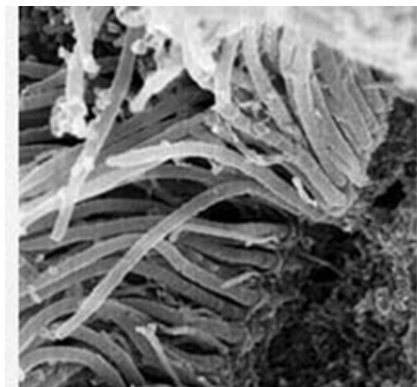
Chapter 16-3

Lung Diseases

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Cilia

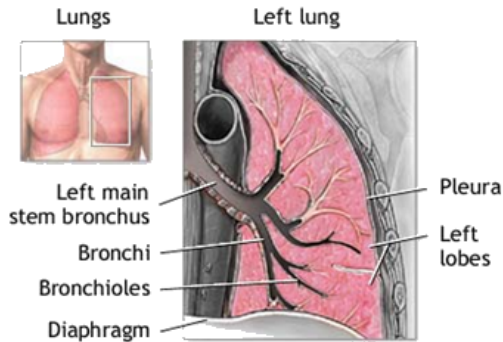
- Protect your respiratory system
- In the trachea and lungs
- Beat in an upward direction so you do not swallow the dirt etc



Cilia

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Lung Disease



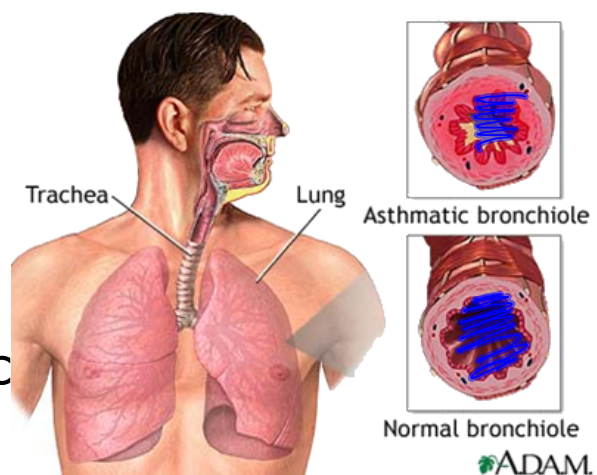
ADAM.

- Air has pollen, dust, smoke, and Smog
- Cigarette smoking temporarily paralyze cilia
- Things then get into the lungs
- They are engulfed by the WBC
- Things like asbestos are not

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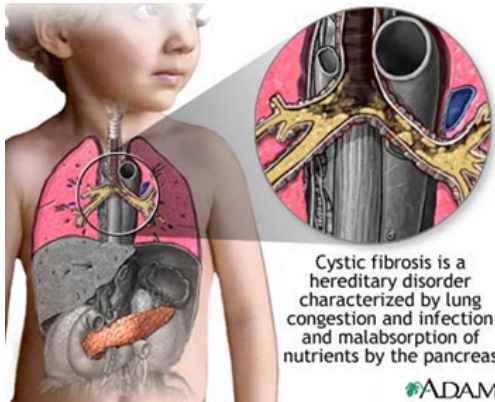
Asthma

- Disorder of the lungs in which there may be:
 - Shortness of breath
 - Wheezing
 - Coughing
- The bronchial tubes constrict quickly
- Air flow to lungs reduced
- Attacks caused by:
 - pollen
 - stress
 - Eating certain food



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Cystic fibrosis



- genetic disease
- Blocks the air passages
- Fluid that lines the lungs and air passages thicken
- No cure
- Symptoms
- Wheezing
- Coughing
- Lung infections

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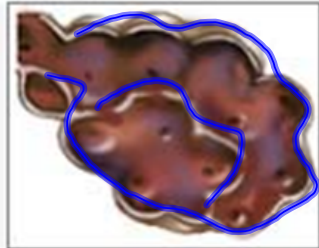
Emphysema

- Linked with smoking
- Occurs when air passageways or alveoli lost their ability to expand and contract
- Air becomes trapped and alveoli
- Alveoli stretch and burst
- Surface air or lungs decreases
- Less oxygen into the blood stream, carbon dioxide stays in the blood stream
- Some people with this cannot blow out a match or walk up stairs.
- Heart has to work harder to supply oxygen to body so many develop heart problems

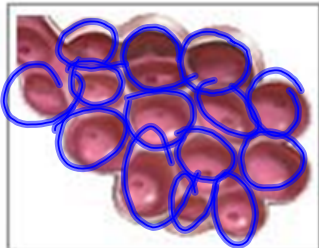
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Alveoli with emphysema



Microscopic view of normal alveoli

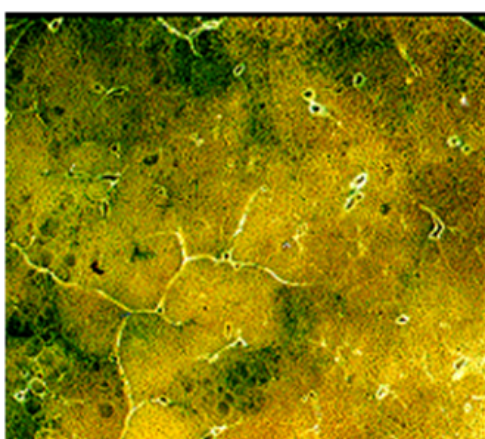


ADAM.

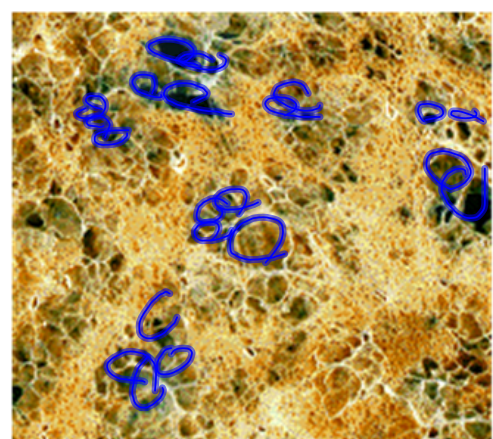
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Normal

Emphysema



Normal Lung - Gross



Emphysemic Lung - Gross

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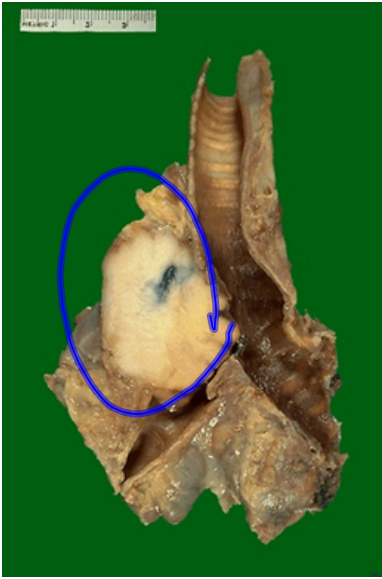
Lung Cancer

- Causes the most deaths among men and women in the United States
- Inhaling tar in cigarette smoke is the greatest contributing factor to lung cancer
- Cancer cells outnumber normal cells so the normal cells weaken and cannot do their job
- Cilia are weakened

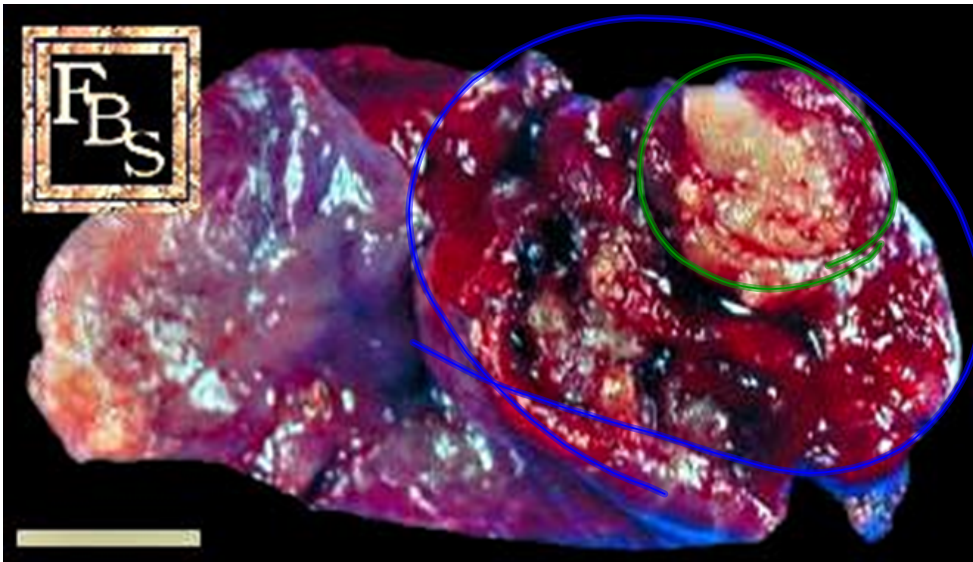
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