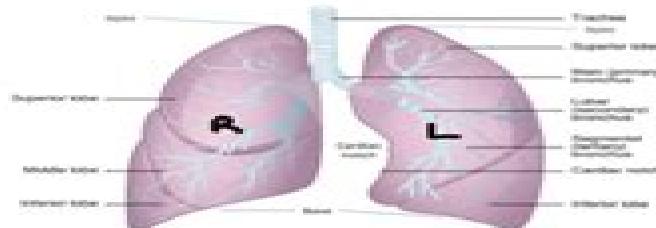
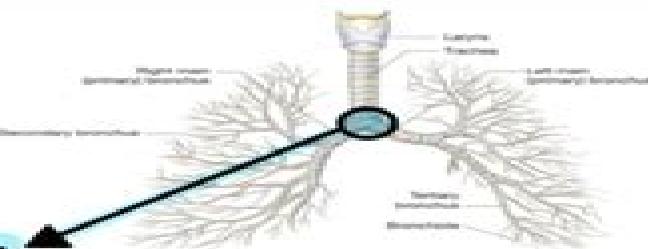


# The Respiratory System

## The Bronchial Tree

- right and left bronchi
- right is more direct in angle and shorter by 2cm, resulting in more foreign objects entering the right lung.
- left bronchus is lower and narrower.
- it divides into
- secondary bronchi
- tertiary bronchi
- bronchioles
- **Terminal bronchioles:**
- Alveoli (external respiration takes place, approx 300 million that cover 70m squared)

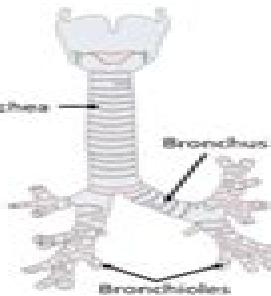


## Respiratory System

- nasal respiratory and excretory function
- linked vessels (pulmonary arteries and veins)
- trachea (airway)
- lungs (respiratory)
- bronchi (pulmonary arteries and pulmonary veins)

## The Pleura

- double layer of serous membrane, covering lungs (visceral) and lining the chest wall (parietal).
- pleural cavity between the lungs is filled with serous fluid and pressure (inhalation when we breathe).



A diagram showing the bronchioles.

## The Bronchioles

- the bronchioles are small **branching tubes** which link the alveoli in the lungs to the trachea.
- there are many bronchioles in the lungs. The bronchioles **branch into alveoli but contain around 1000 alveoli.**

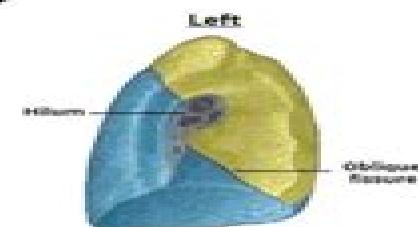


Alveoli are **small airways** in the lungs which are specially adapted for **gas exchange**.

The walls of the alveoli, separating the air from the blood are very thin allowing gases to diffuse quickly. The blood supply to the alveoli is very good to constantly supply blood with little oxygen and a lot of carbon dioxide keeping a high concentration gradient. The walls of the alveoli are kept moist to allow gases to dissolve into the fluid for gas exchange with the blood.



A diagram showing several alveoli and the capillaries supplying them with blood.



A diagram showing a single alveolus with oxygen (O2) entering the blood and carbon dioxide leaving the blood.

BREATHE IN...BREATHE OUT...BREATHE IN...BREATHE OUT...BREATHE IN...BREATHE OUT...BREATHE IN...BREATHE OUT...

# Study Guide Respiratory System

**Elizabeth J. Shisler**

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