

Respiratory System

Objective

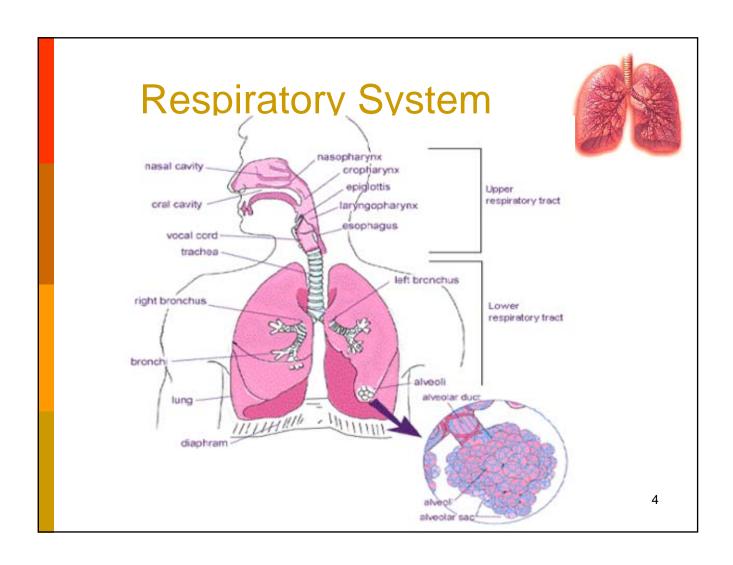


- ☐ Identify components of the conducting and respiratory portions of the respiratory system.
- ☐ Discuss overview of gas exchange.
- ☐ Describe other functions of the respiratory system.

Introduction



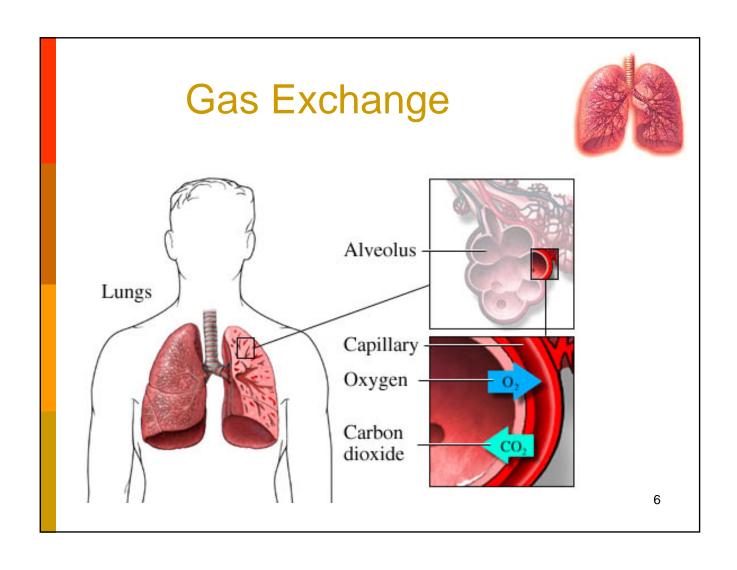
- Divided anatomically:
 - upper respiratory tract
 - lower respiratory tract.
- ☐ Divided functionally:
 - Conducting portion (transports air)
 - Nose, nasal cavity, pharynx, larynx, trachea, bronchi, terminal bronchioles
 - Respiratory portion (gas exchange)
 - Bronchioles, alveolar ducts, alveoli

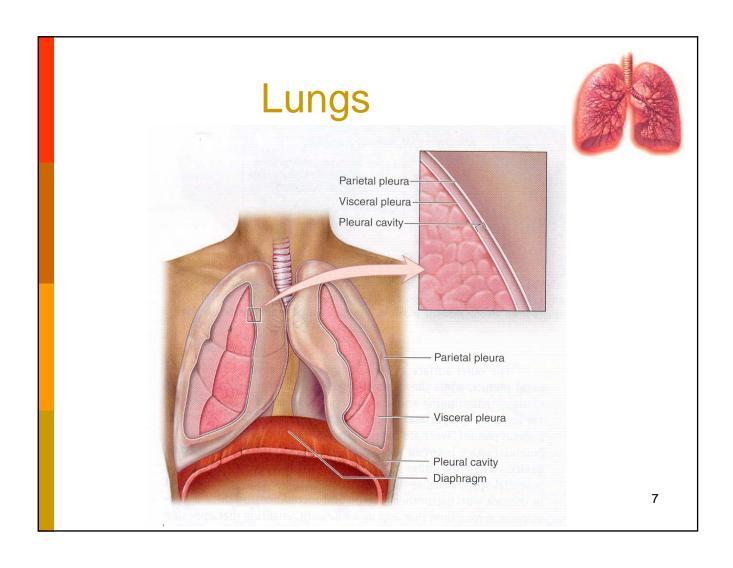


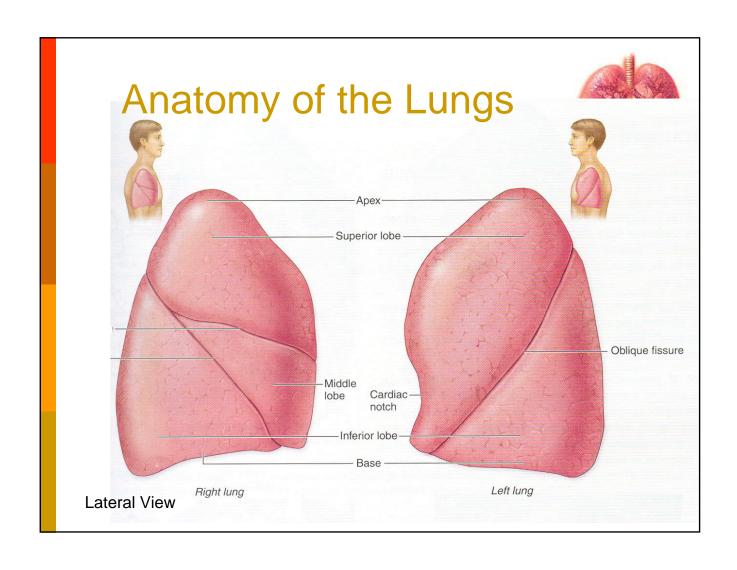
Functions

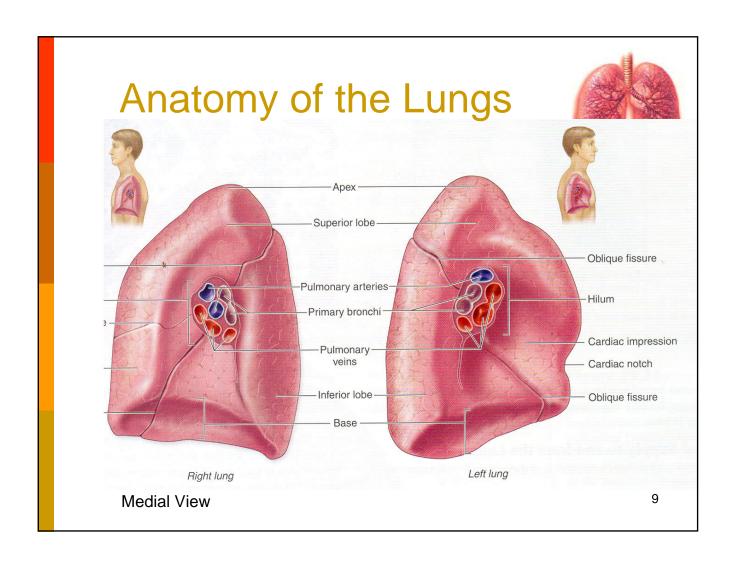


- Breathing / pulmonary ventilation (gas exchange)
 - Inhalation (inspiration)
 - Draws gases into the lungs.
 - Exhalation (exspiration)
 - Forces gases out of the lungs.
- Gas conditioning
- Sound production
- Olfaction (smell)
- ☐ Defense (protect body from infection by airborne molecules)

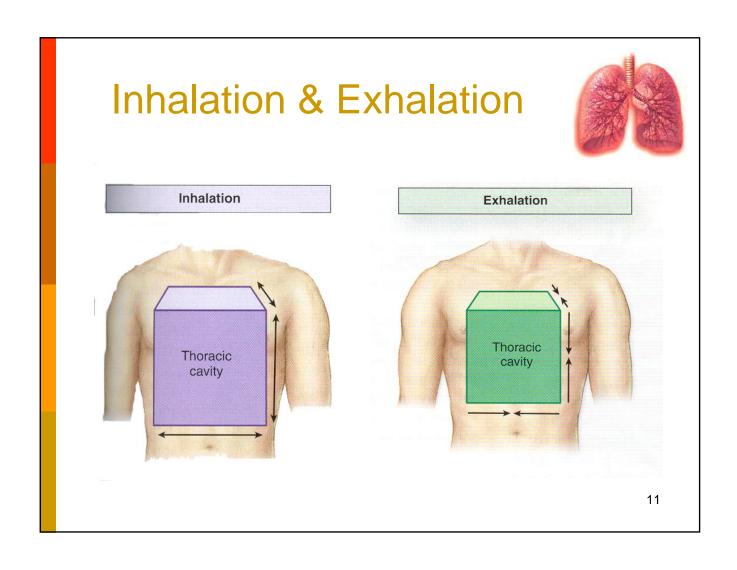


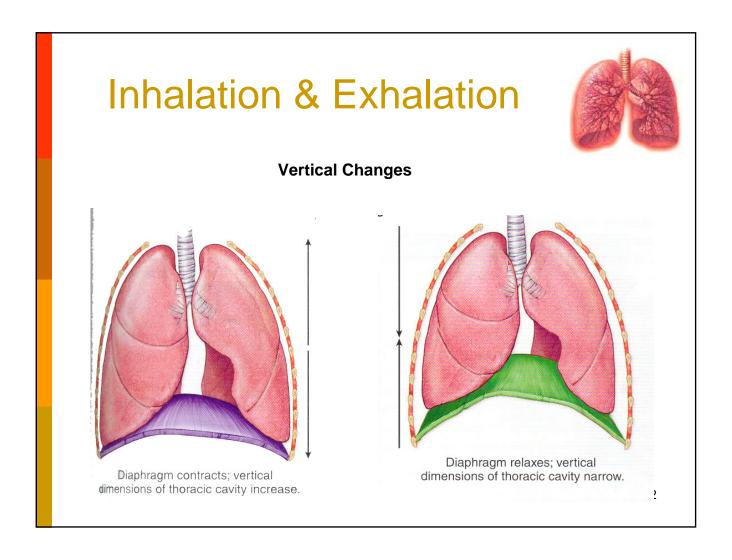


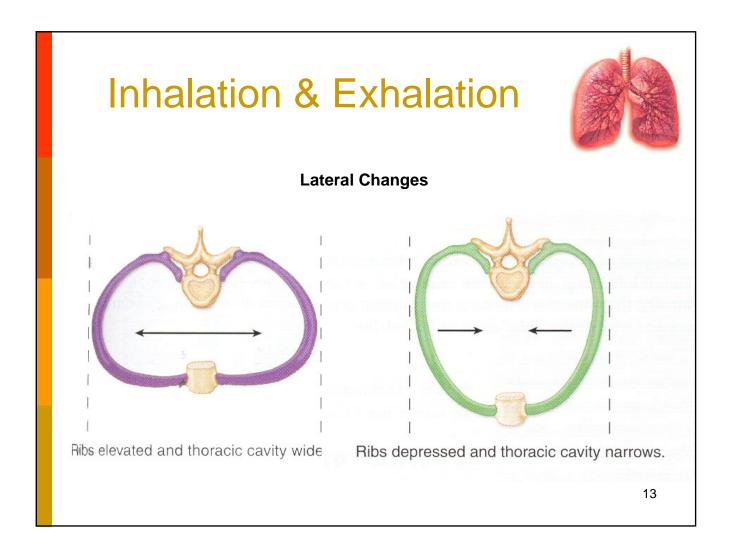




Inhalation & Exhalation Air Out To



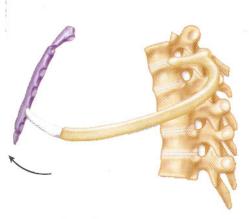




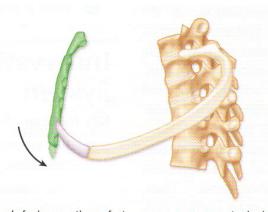




Anterior-posterior changes



Inferior portion of sternum moves anteriorly.



Inferior portion of sternum moves posteriorly.

