

Chapter 22: The respiratory system

• What you should know:

Anatomy of respiratory system, upper and lower respiratory, nose, sinuses, pharynx, larynx, trachea, bronchi, lungs and pleurae

Pressure relationships in thoracic cavity,

atmospheric/intrapleural/interpleural/transpulmonary pressures

Pulmonary ventilation, inspiration/expiration, airway resistance,

alveolar tension, lung compliance

Respiratory volumes and capacities, dead space, alveolar ventilation

Gas exchange, external respiration, internal respiration

Blood transport of oxygen, hemoglobin saturation curve, Bohr effect,

Haldane effect, chloride shift

Control of respiration, neural mechanisms, factors influencing

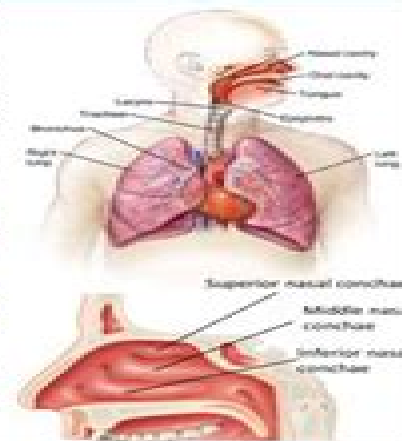
breathing rate and depth, chemicals, higher brain centers, reflexes

Respiratory adjustments

1

Respiratory Organs

- **Nostrils:** The paired external openings of nose are nostrils.
- **Nasal Chambers:** The cartilaginous nasal septum divides nasal cavity into two chambers. Three bony ridges (superior, middle & inferior nasal conchae) arise from the wall of each nasal chamber. Nasal chamber further differentiated into:
 - **Vestibular region:** A small region bearing hairs and oil glands → prevents from entry of large dust particles.
 - **Respiratory region:** Middle, highly vascular region, lined by ciliated columnar epithelium with mucus secreting goblet cells. It acts as filtering and air conditioning region.
 - **Olfactory region:** The upper part of nasal chamber act as organ of smell, supplied with nerve ending of olfactory nerve.



A P Chapter 22 Respiratory System

K Morrison



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