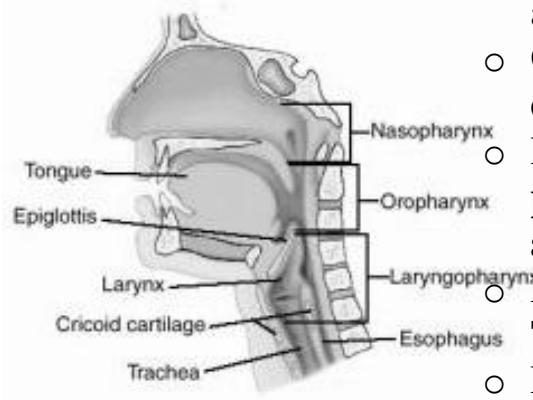


# The Respiratory System

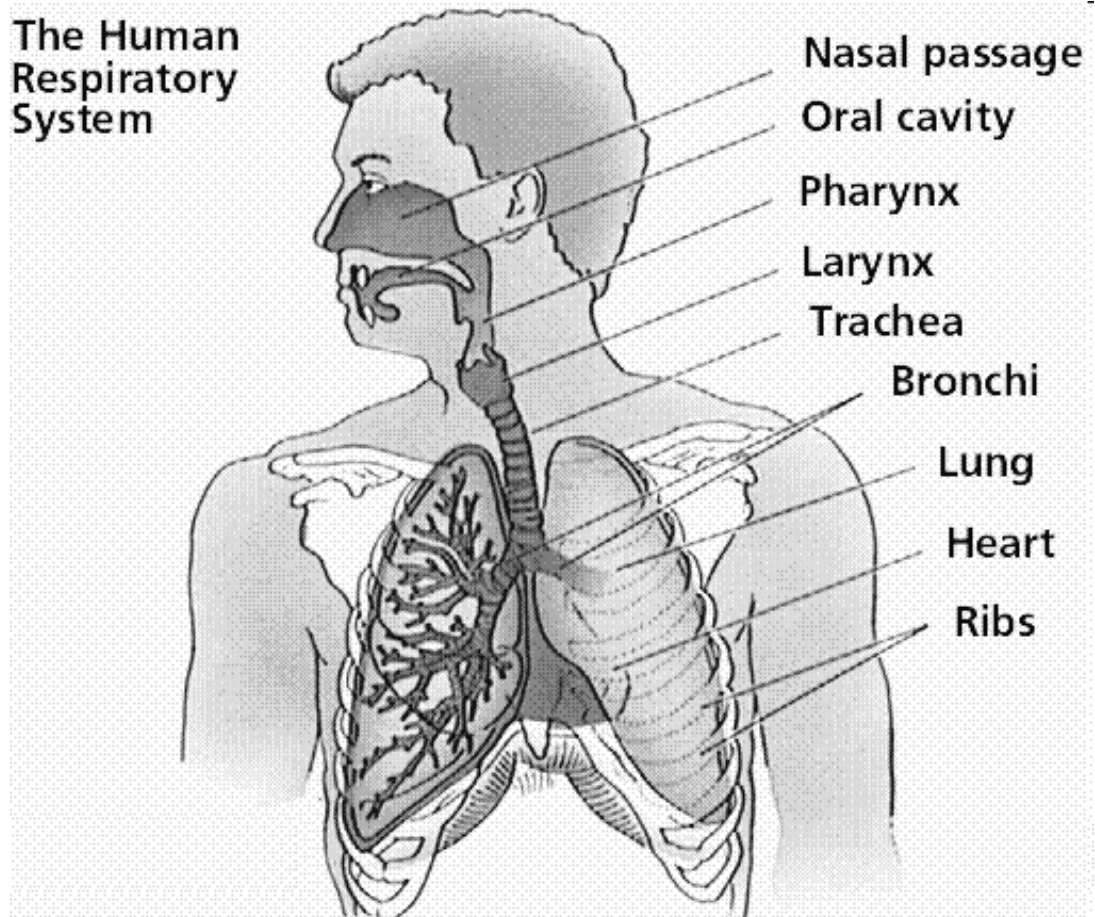
- Major Functions.
  - Breathing: Taking in and taking out oxygen.
  - Eating and Drinking: Takes food down the epiglottis.
  - Oxygenating Blood: Takes air to lungs which put oxygen into blood to go to the heart.
  - Talking: Vocal chords help make noise and your mouth shapes the words.
  - Helping Other Systems.
    - Transports food to the digestive system.
    - Helps oxygenate blood for the circulatory system.
    - Helps immune system get clean oxygen.
    - The nervous system needs oxygen from the respiratory system to give orders.

- **Organs of Respiration**



- Nasal Cavity: The nasal cavities conditions the air to be received by the nose.
- Oral Cavity: is responsible for talking, facial expression, eating, drinking and breathing
- **Pharynx: contains the epiglottis which prevents food from going down the windpipe and choking you**
- **Epiglottis: Prevents food from going into the Trachea**
- Larynx: Voice box
  - Vocal Chord: **Controls the flow of air coming from the lungs**
- Trachea: The windpipe. Takes oxygen to the lungs.
- Bronchial tubes:
- Right Lung Left Lung: To breathe.
  - Bronchi:
  - Alveoli: sacs where O<sub>2</sub> & CO<sub>2</sub> takes place
- Pulmonary Artery: Carries blood from the heart to lungs.

## The Human Respiratory System

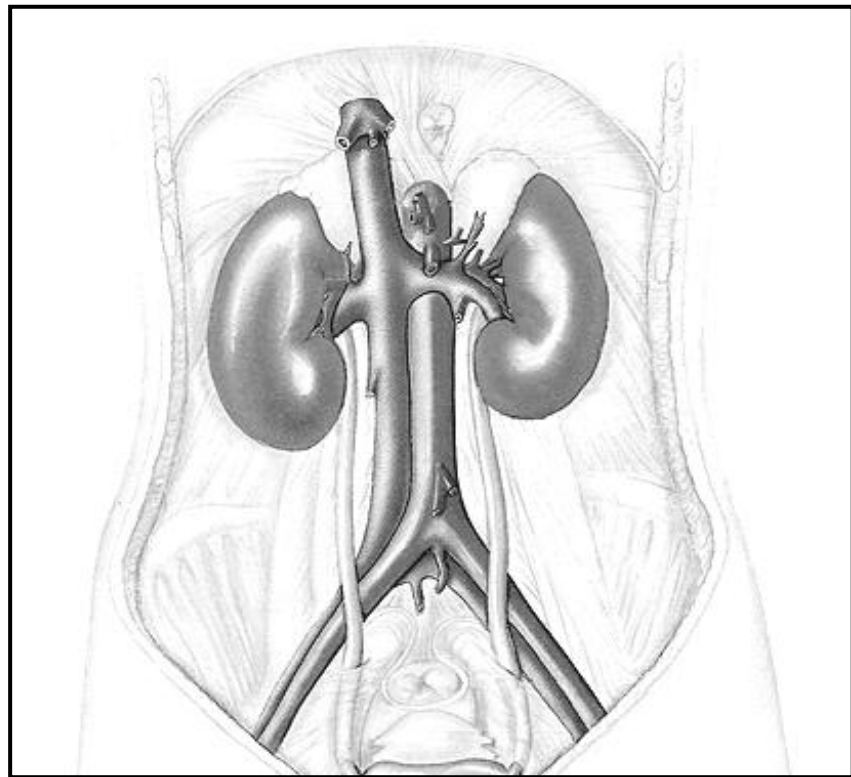


- **Why do You breath?**
  - **Gain oxygen and removed carbon dioxide**
- Diseases of the Respiratory system
  - Respiratory infections
  - Pneumonia
  - Bronchitis
  - Asthma
  - Emphysema
  - Cancer
- Causes of disorders
  - Carcinogens and irritants such as:
    - Smoke, carbon monoxide, pollution, coal dust, asbestos

## The Excretory system

- Functions of the urinary system
  - Rids the Blood of waste
  - Keeps the bodies water balanced
  - Regulates fluid levels
- Organs of the Urinary system

- Kidneys
  - Where the blood is filtered by nephrons and waste is removed and sent through the ureters.
  - Ureters – tubes that take urine from the kidneys to the urinary bladder
  - Urinary bladder – an elastic muscular sack that collects the urine until it exits the body through the urethra
  - Urethra is the tube that carries blood from the urinary bladder out of the body.



- Why we need to excrete waste
  - We eat many things that contain things harmful to the body.
  - There are waste released continually from the cells and removed or cell will be poisoned
  - Waste products must be removed continually or we cannot live.
- Diseases of the urinary system
- Kidney malfunction or failure

- If the kidneys fail the person fails
- Dialysis is what must be done if the kidneys fail
- The only long term and effective treatment is a kidney transplant.
- Urinary tract infections.
  - Yeast
  - Bacterial
  -

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