

Organ Systems

- There are 11 main organ systems that make up the human body.
- Although we will study each individual system in detail later, it is important to understand they all ultimately work together as the human body.



Integumentary System

- Main Organ – Skin, hair, and nails
- Function- protection, temperature regulation, sensation



Skeletal System

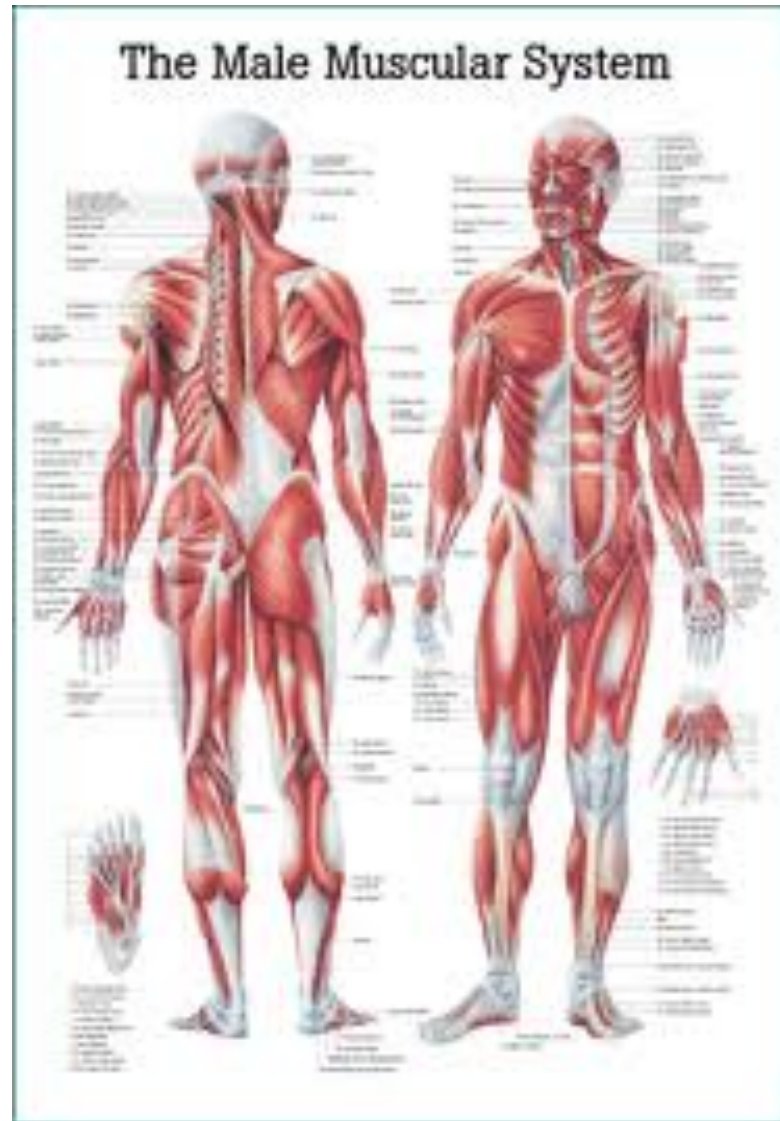
- Organs – Bones/
Ligaments
- Function – support,
protection,
movement, fat
storage, blood
production



Muscular System

Organs- Muscles/
Tendons

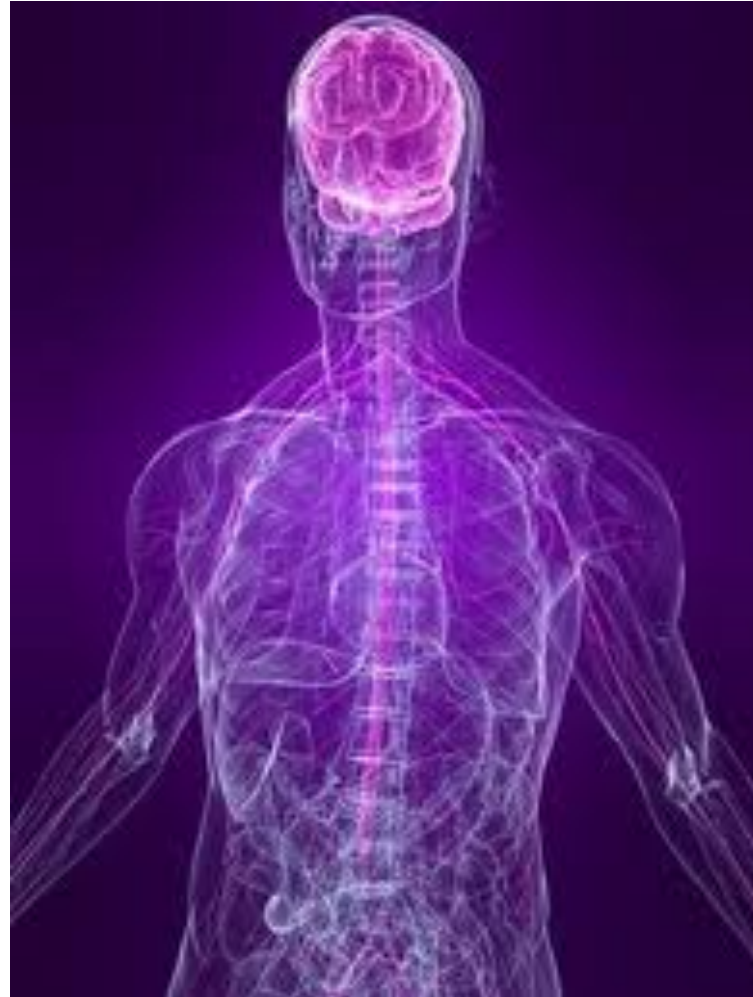
Function –
movement,
posture, heat
production



Nervous System

Organs – Brain,
Spinal cord,
Nerves, sensory
organs

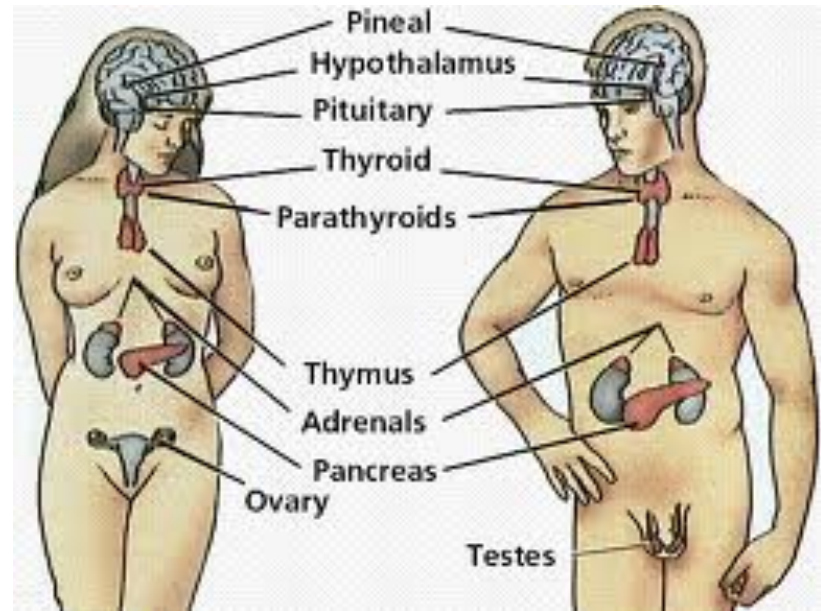
Function – Control,
regulation and
coordination of
other sensations,
memory



Endocrine System

Organs- pituitary gland, adrenals, pancreas, thyroid, other glands

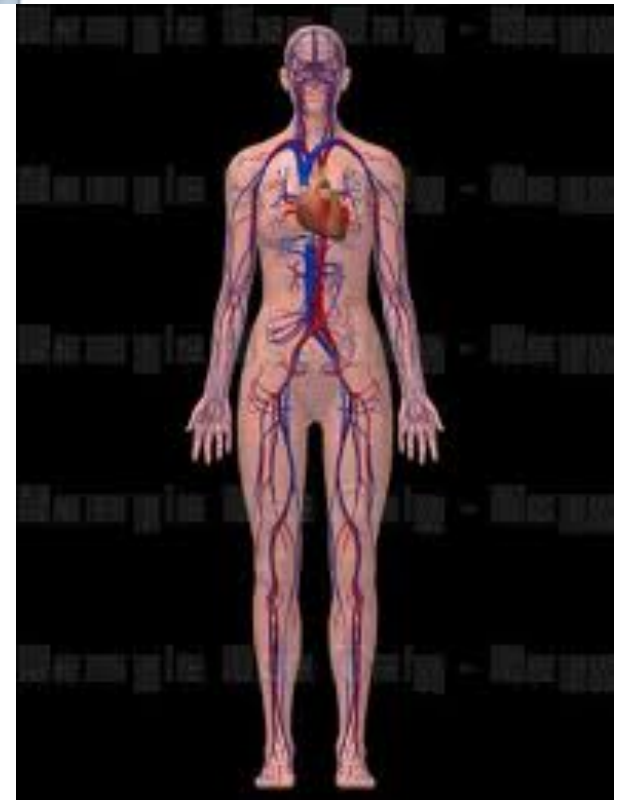
Function- control and regulation of other systems



Cardiovascular system

Organs – Heart,
arteries, veins,
capillaries

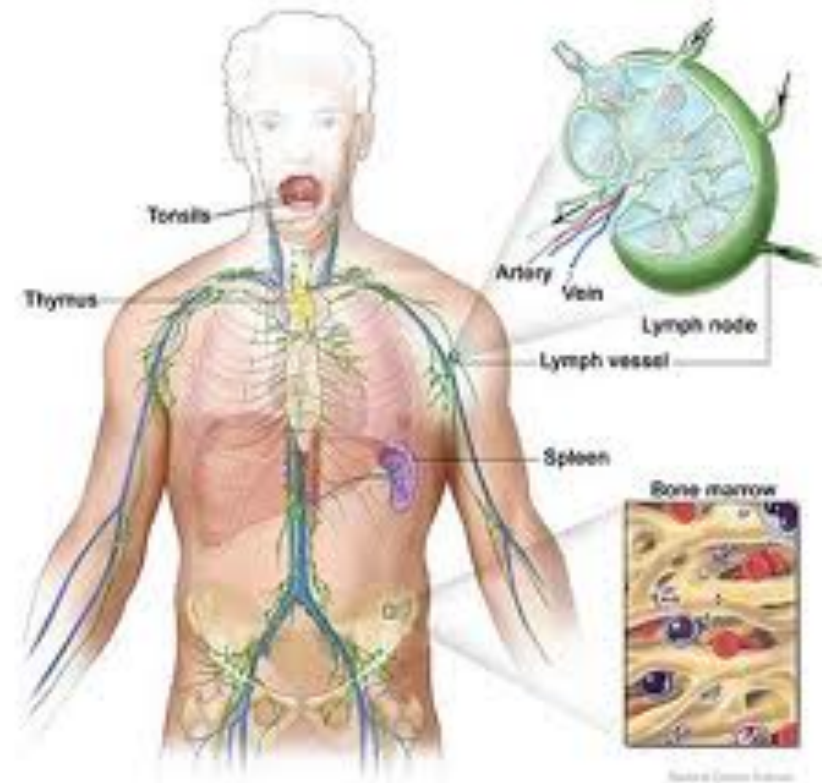
Function- Exchange
and transport of
materials



Lymphatic System

Organs- Lymph nodes, lymphatic vessels, spleen, tonsils, thymus

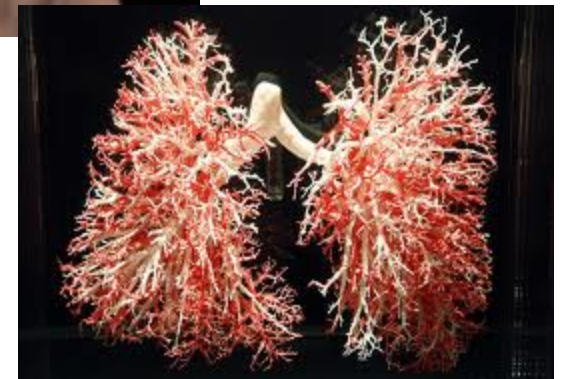
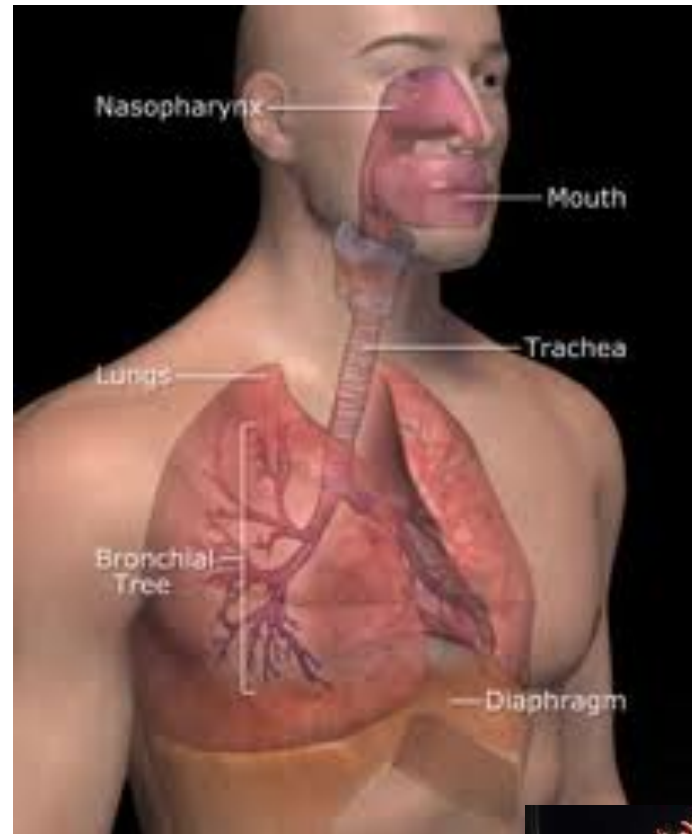
Function-
Immunity, fluid balance



Respiratory System

Organs- Lungs,
bronchial tree,
trachea, larynx,
nasal cavity

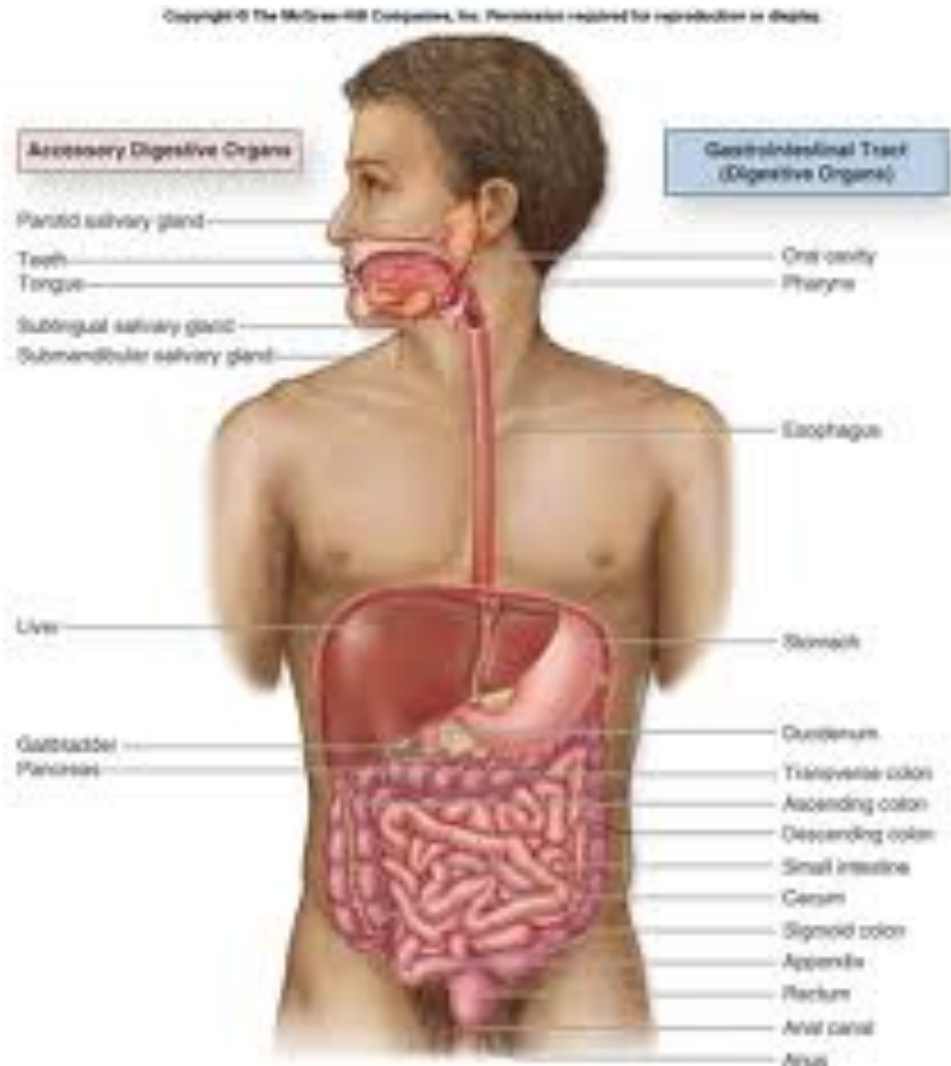
Function- gas
exchange, acid-
base balance



Digestive System

Organs - Stomach, small and large intestine, esophagus, liver, mouth, pancreas

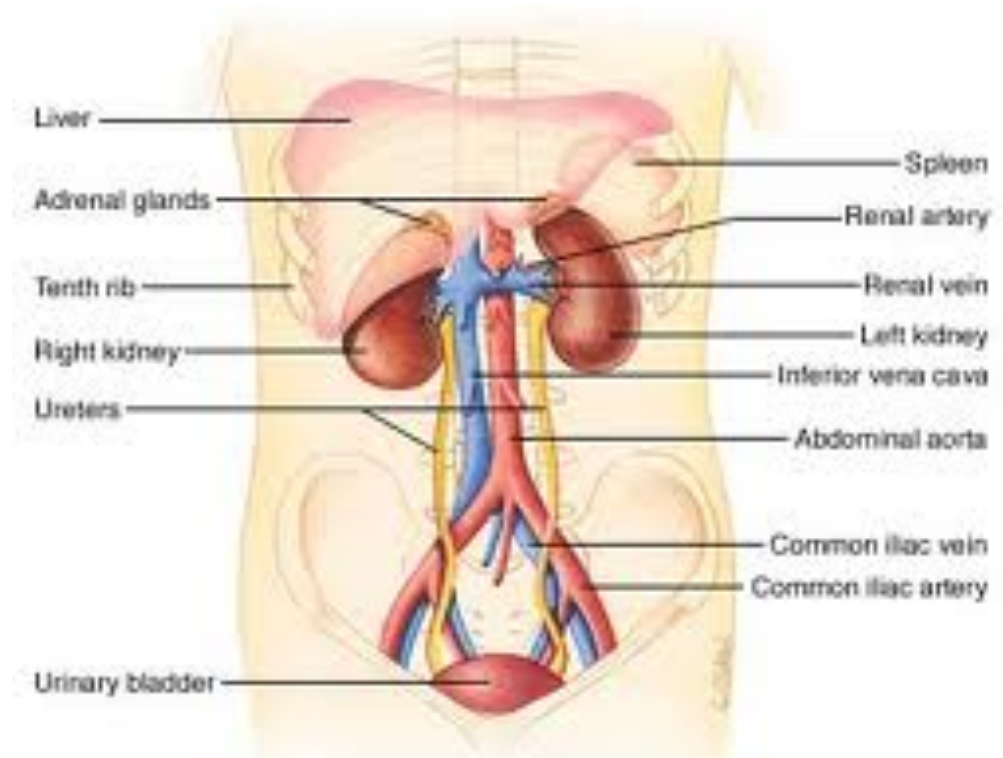
Function – Breakdown and absorption of nutrients, elimination of wastes



Urinary System

Organs - Kidneys,
ureters, bladder,
urethra

Function – Excretion
of waste, fluid and
electrolyte balance,
acid-base balance



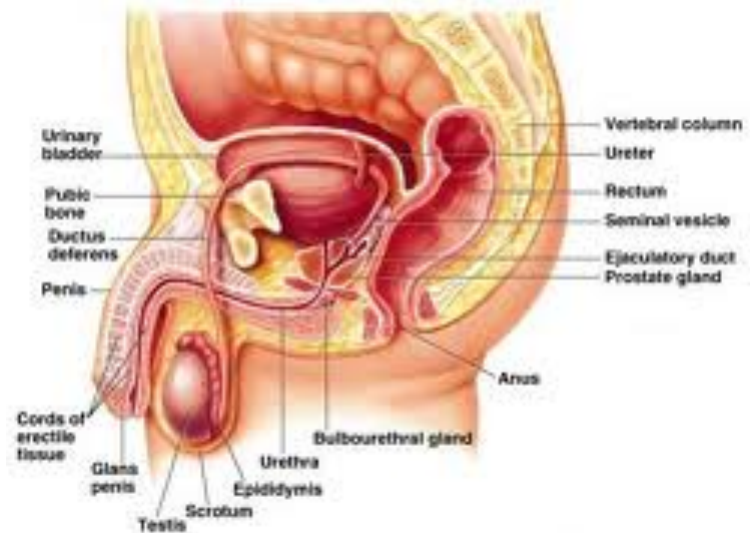
Reproductive System

Organs –

Female- Ovaries, fallopian tubes, uterus, vagina, breasts

Males- Testes, vas deferens, prostate, seminal vesicles, penis

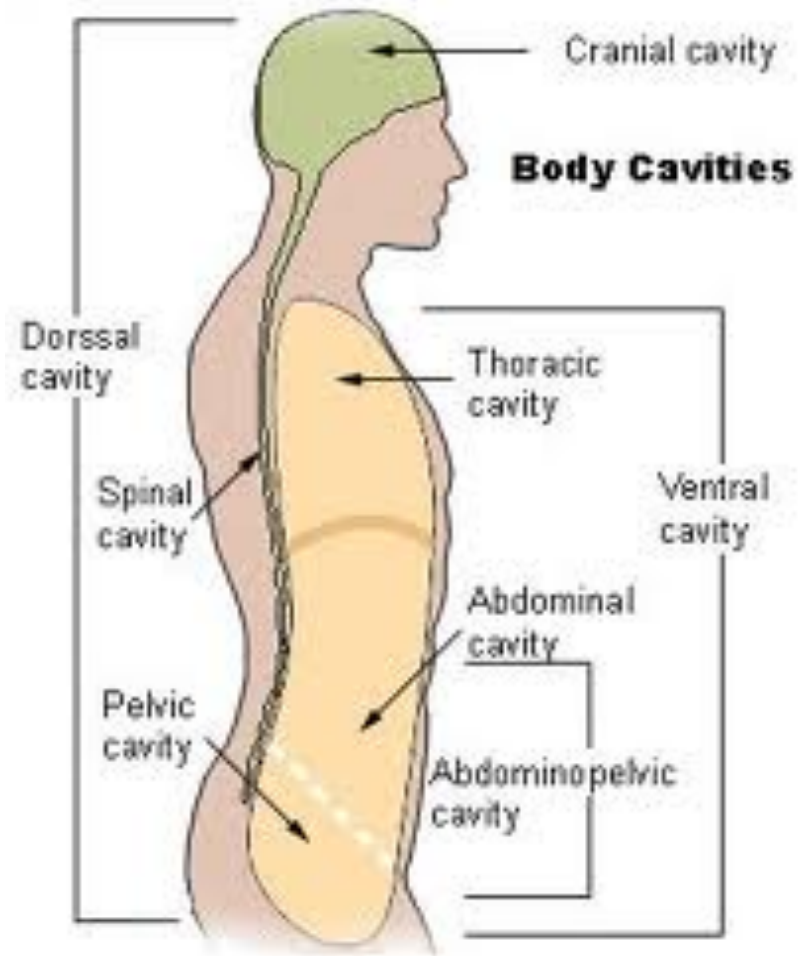
Function – reproductions, continuation of genetic information, nurturing of offspring



Body Cavities

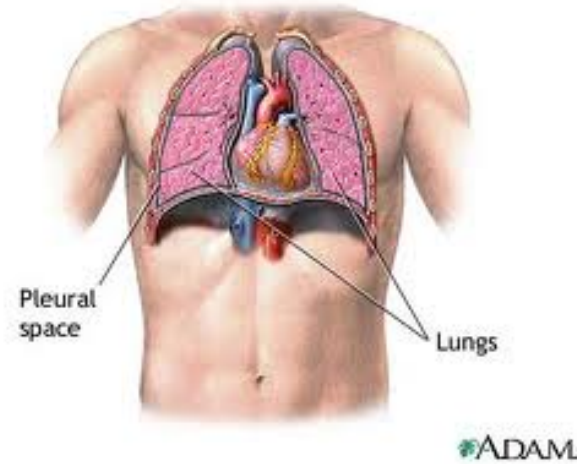
Ventral – composed of the thoracic cavity and the abdominopelvic cavity

Dorsal- composed of the cranial and spinal cavities



Thoracic Cavity

- The thoracic cavity or chest cavity houses the following organs
- Lungs
- Heart
- Trachea
- Bronchi
- Esophagus
- Thymus gland
- It is separated from the abdominopelvic cavity by the diaphragm



Abdominopelvic Cavity

- The following organs are contained in the abdominopelvic cavity:
- Liver
- Gallbladder
- Stomach
- Pancreas
- Intestines
- Spleen
- Kidneys
- Ureters
- Bladder
- Reproductive organs

