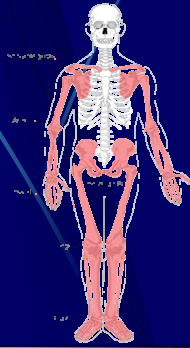


H. Organization of the Human Body

- The body can be divided into:
 - Appendicular** portion (upper and lower limbs)
 - Axial** portion (head, neck, and trunk)



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- Axial** portion includes **dorsal** cavity (back) and **ventral** cavity (front).

- Dorsal cavity is subdivided into:
 - Cranial cavity** (contains the brain)
 - Spinal cavity** (contains the spinal cord)

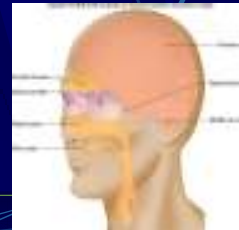


- Ventral cavity is subdivided by the diaphragm into:
 - Thoracic cavity** (contains pleural cavities and mediastinum with pericardial cavity)
 - Abdominopelvic cavity** (divided into abdominal and pelvic cavities)



- Organs within the ventral cavities are called **viscera**.

- Smaller cavities within the head include:
 - Oral cavity** (contain teeth & tongue)
 - Nasal cavity** (within nose)
 - Orbital cavities** (contain eyes)
 - Middle ear cavities** (contain middle ear bones)

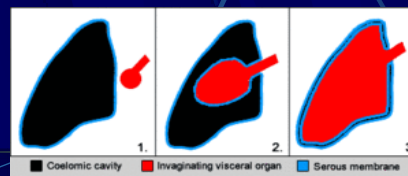


I. Serous Membranes

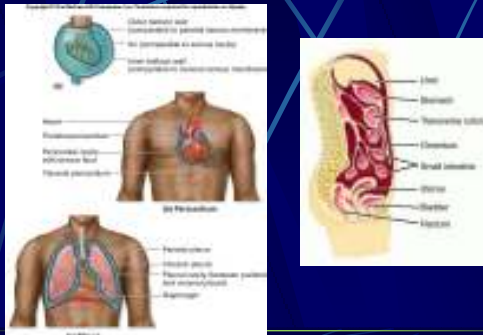
- Serous membranes:** membranes that line cavities and secrete a fluid to reduce friction between organs
- There are the following serous membranes:
 - Pleura** (around the lungs)
 - Pericardium** (around the heart)
 - Peritoneum** (around many organs of abdominopelvic cavity)

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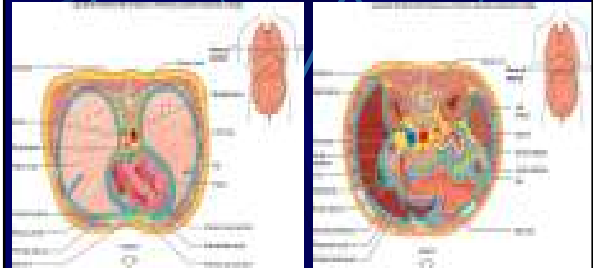
- Each serous membrane has two layers:
 - Visceral membrane:** in contact with the organ it covers.
 - Parietal membrane:** in contact with the wall of the cavity where the organ is located.
- Serous fluid** separates the two layers of the serous membrane



Serous Membranes

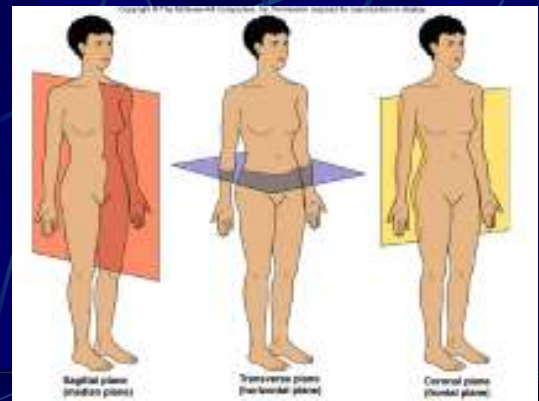


Transverse Section through the Thorax and Abdomen



J. Body Planes:

1. **Sagittal (median) section** divides the body into right and left portions.
2. **Transverse (horizontal) section** divides the body into superior and inferior portions.
3. **Coronal (frontal) section** divides the body into anterior and posterior sections.

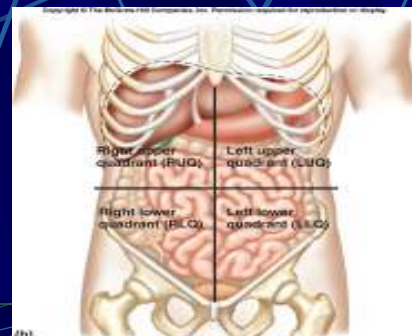


K. Body Regions

1. The abdominal area can be divided into nine regions.



2. The abdominal area is also often subdivided into four quadrants:



3. Human body is further divided into various body regions:

