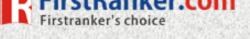


GENERAL HUMAN ANATOMY

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Department of Anatomy



THE DEFINITION OF ANATOMY

Anatomy

- Greek=to cut up, or dissect
- The science that deals with the structure of the body

Kinds:

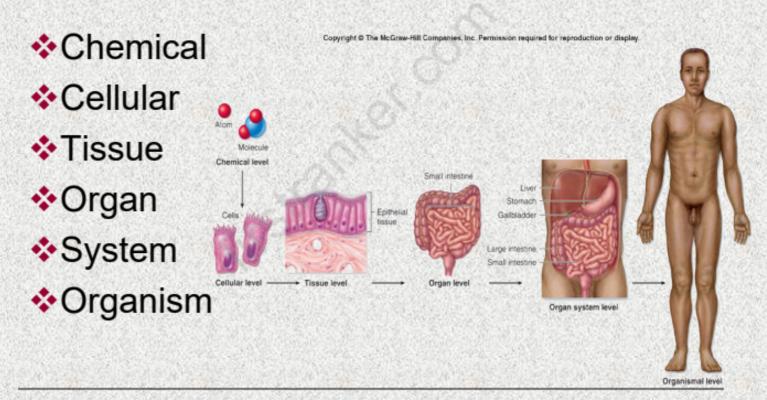
- Gross Anatomy
- Microscopic Anatomy
- Developmental Anatomy
- Comparative Anatomy



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STRUCTURAL LEVELS OF ORGANIZATION





- Anatomic position is a specific body position in which an individual stands upright with the feet parallel and flat on the floor.
- The head is level, and the eyes look forward toward the observer.
- The arms are at either side of the body with the palms facing forward and the thumbs pointing away from the body.



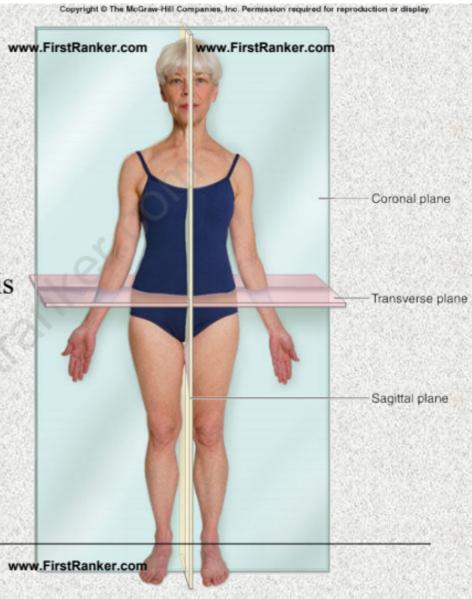


Anatomical Terminology

- A plane is an imaginary surface that slices the body into specific sections.
- The three major anatomic planes of reference are the coronal, transverse, and sagittal planes.



A coronal plane, also called a frontal plane, is a vertical plane that divides the body into anterior (front) and posterior (back) parts.



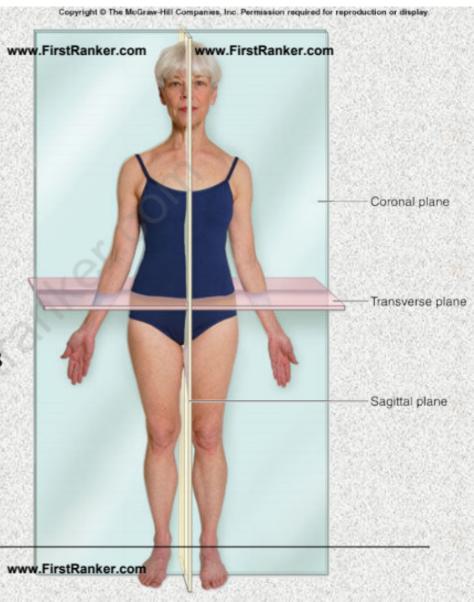


❖ A transverse plane, also called a cross-sectional plane or horizontal plane, cuts perpendicularly along the long axis of the body or organ separating it into both superior (upper) and inferior (lower) parts.





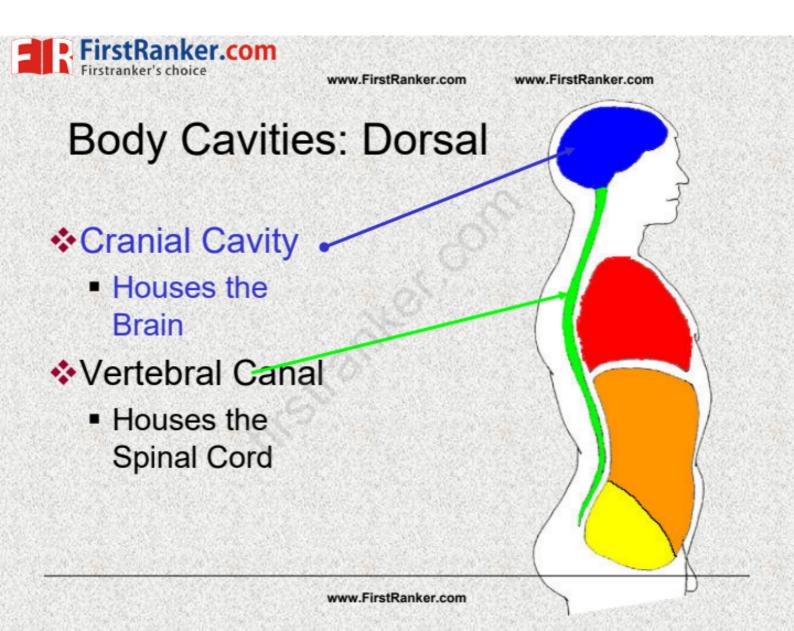
A sagittal plane or median plane, extends through the body or organ vertically and divides the structure into right and left halves.

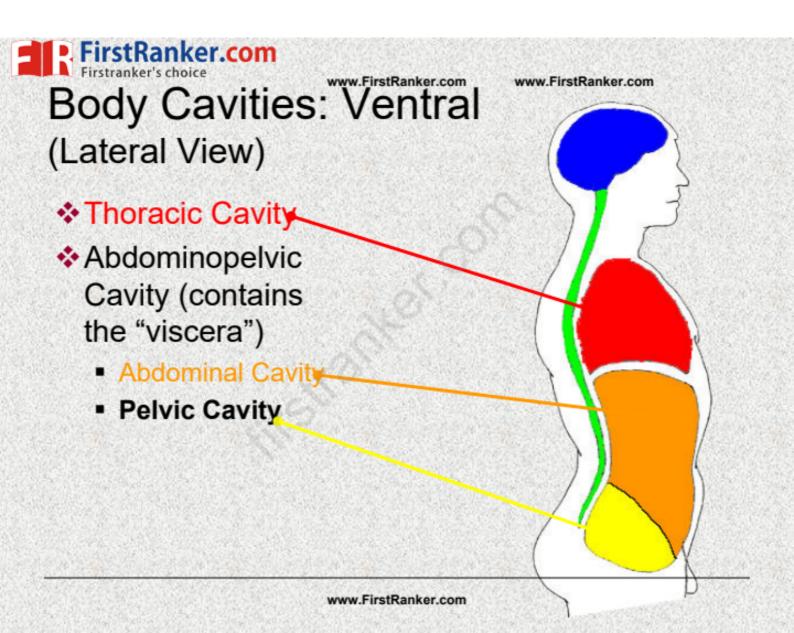




Sections and Planes

- A sagittal plane in the body midline is a midsagittal plane.
- A plane that is parallel to the midsagittal plane, but either to the left or the right of it, is termed a parasagittal (or sagittal) plane.
- A minor plane, called the oblique plane, passes through the specimen at an angle.







Other Cavities

- Oral cavity
- Nasal cavity
- Orbital cavities
- Middle ear cavities



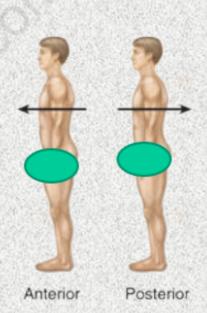
Directional Terms of the Body

Directional terms are precise and brief, and for most of them there is a correlative term that means just the opposite.



Relative and Directional Terms of the Body

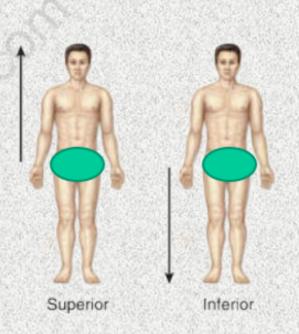
- Relative to front (belly side) or back (back side) of the body:
 - Anterior = In front of; toward the front surface
 - Posterior = In back of; toward the back surface
 - Dorsal =At the back side of the human body
 - Ventral = At the belly side of the human body





Relative and Directional Terms of the Body

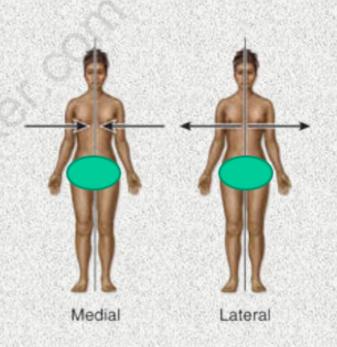
- Relative to the head or tail of the body:
 - Superior = Toward the head or above
 - Inferior = Toward feet not head
 - Caudal = At the tail end
 - Cranial = At the head end





FirstRanker.com Relative and Directional Terms of the Body

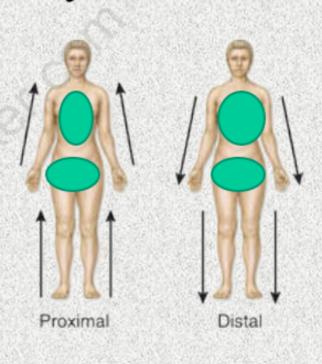
- Relative to the midline or center of the body:
 - Medial = Toward the midline of the body
 - Lateral = Away from the midline of the body
 - Deep = On the inside, underneath another structure
 - Superficial = On the outside





Relative and Directional Terms of the Body

- Relative to point of attachment of the appendage:
 - Proximal = Closest to point of attachment to trunk
 - Distal = Furthest from point of attachment to trunk





Body Regions

- The human body is partitioned into two main regions, called the axial and appendicular regions.
 - the axial region includes the head, neck, and trunk which comprise the main vertical axis of our body
 - our limbs, or appendages, attach to the body's axis and make up the appendicular region

