

www.FirstRanker.com

GENERAL HUMAN ANATOMY

Dr. Dalya Ibrahim Ahmed **Department of Anatomy**



THE DEFINITION OF ANATOMY

Anatomy

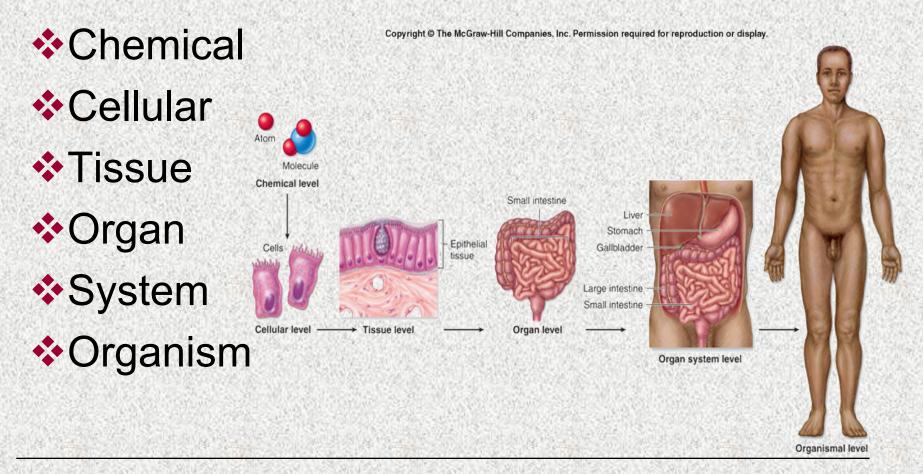
- Greek=to cut up, or dissect
- The science that deals with the structure of the body

Kinds:

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



STRUCTURAL LEVELS OF ORGANIZATION



FirstRanker.com Firstranker's choice Anatomical " Terminology

- 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.





www.FirstRanker.com

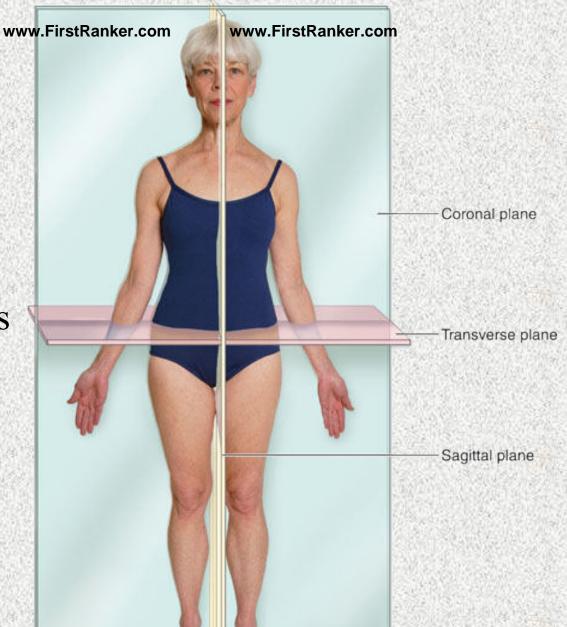
Anatomical Terminology

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.

FirstRanker.com Firstranker's choice Sections and Planes

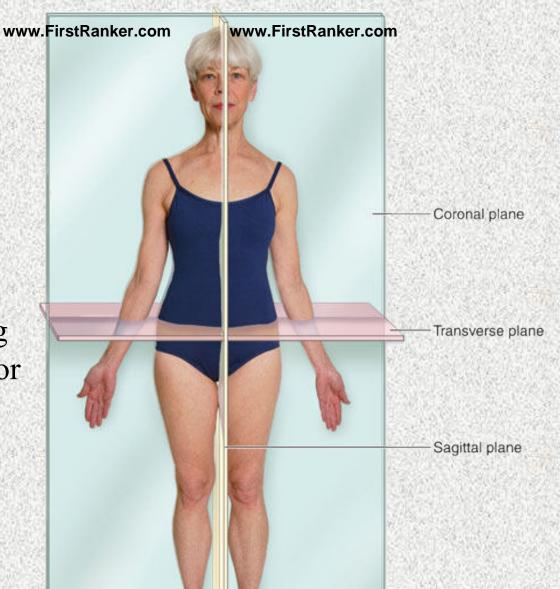
A coronal plane, also called a frontal plane, is a vertical plane that divides the body into anterior (front) and posterior (back) parts. Copyright @ The McGraw-Hill Companies, Inc. Permission required for reproduction or display.



FirstRanker.com Firstranker's choice Sections and Planes

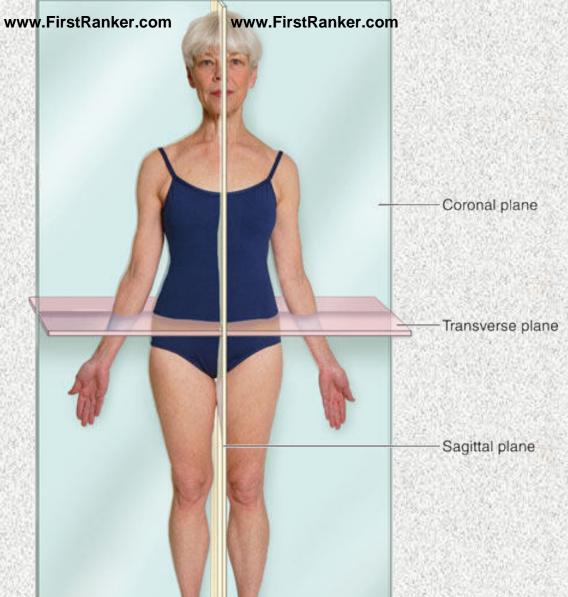
A transverse plane, also called a cross-sectional plane or horizontal plane, cuts perpendicularly along the long axis of the body or organ separating it into both superior (upper) and inferior (lower) parts.

Copyright © The McGraw-Hill Companies, Inc. Permission required for reproduction or display.



FirstRanker.com Firstranker's choice Sections and Planes

A sagittal plane or median plane, extends through the body or organ vertically and divides the structure into right and left halves. Copyright @ The McGraw-Hill Companies, Inc. Permission required for reproduction or display.





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.



www.FirstRanker.com

Body Cavities: Dorsal

- Cranial Cavity
 - Houses the Brain
- Vertebral Canal
 - Houses the Spinal Cord



Body Cavities: Ventral (Lateral View)

- Thoracic Cavity
- Abdominopelvic Cavity (contains the "viscera")
 - Abdominal Cavity
 - Pelvic Cavity



www.FirstRanker.com

Other Cavities

Oral cavity
Nasal cavity
Orbital cavities
Middle ear cavities



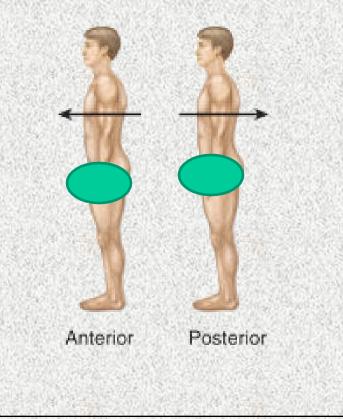
www.FirstRanker.com

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.

FirstRanker.com Firstranker's choice 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

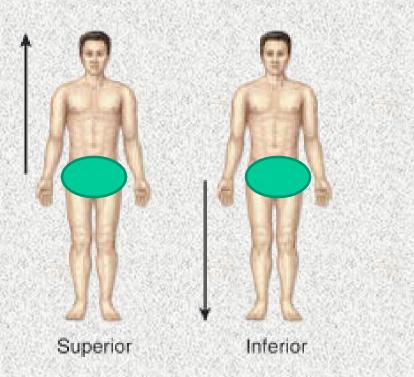




Relative and Directional Terms of the Body

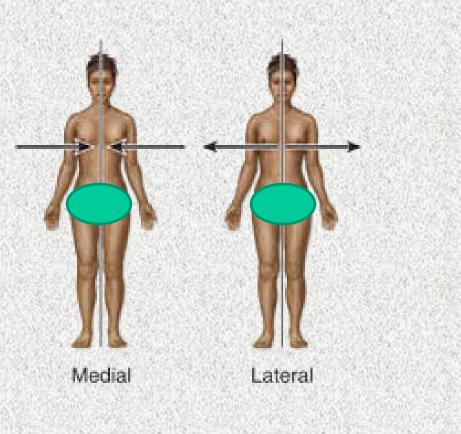
Relative to the head or tail of the body:

- Superior = Toward the head or above
- Inferior = Toward feet not head
- **Caudal** = At the tail end
- **Cranial** = At the head end



FirstRanker.com Firstranker's choice Relative and Directional Temperants of the Body

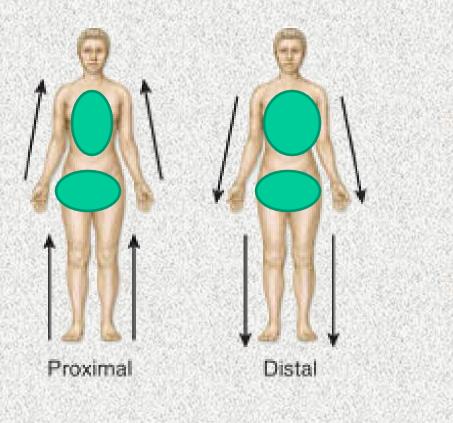
- Relative to the midline or center of the body:
 - Medial = Toward the midline of the body
 - Lateral = Away from the midline of the body
 - Deep = On the inside, underneath another structure
 - Superficial = On the outside





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





www.FirstRanker.com

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**



www.FirstRanker.com

Copyright © The McGraw-Hill Companies, Inc. Permission required for reproduction or display.

Copyright © The McGraw-Hill Companies, Inc. Permission required for reproduction or display.

