



Introduction and anatomical terms

Anatomy Department Beni-Suef University

Intended learning objectives (ILOs)

By the end of this lecture the student will be able to:

- 1. Define anatomy.
- 2. Define directional terms used to describe the human body.
- 3. Describe anatomical position, planes and sections.
- 4. Outline the major body cavities.

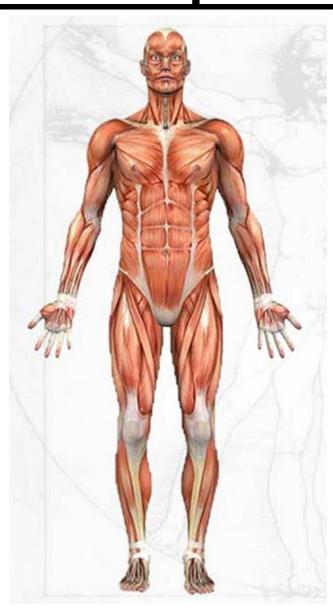
Fields of anatomical study include

- Gross anatomy
- Histology
- Surface anatomy
- Applied or clinical anatomy
- Surgical anatomy
- Radiological anatomy
- Endoscopy
- Comparative anatomy
- Embryology

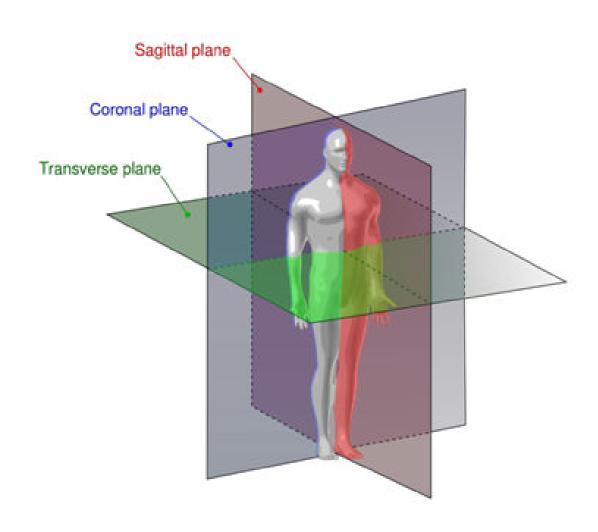
Levels of Organization

- 1. Cells
- 2. Tissues
- 3. Organs
- 4. Systems
- 5. An organism

Terms of position



Anatomical planes and lines



Terms of relationship and directions

Superior Inferior

Anterior (ventral) Posterior (dorsal)

Medial Lateral

Proximal Distal

Superficial Deep

Internal External

Terms of movement

Flexion Extension

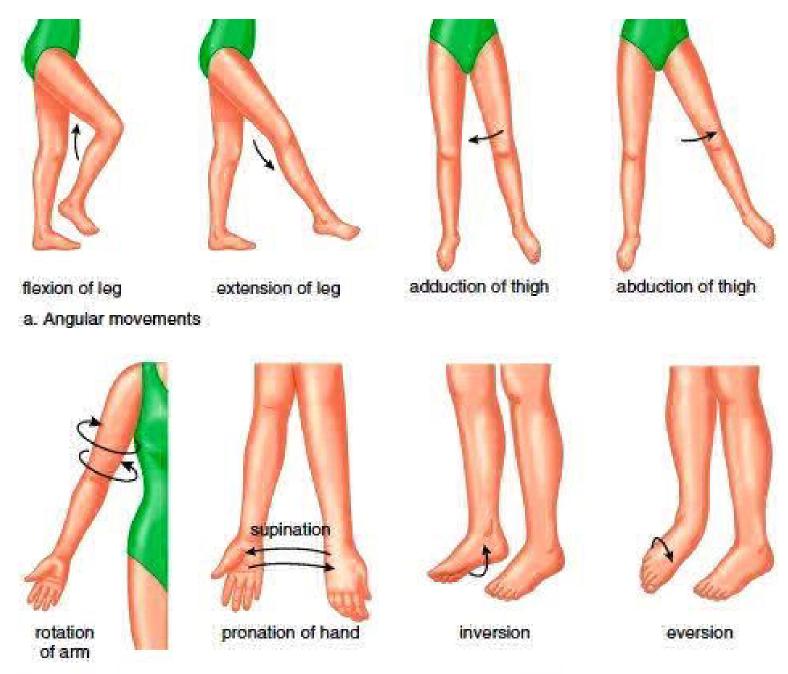
Adduction Abduction

Medial rotation Lateral rotation

Circumduction

Supination Pronation

Inversion Eversion



b. Circular movements

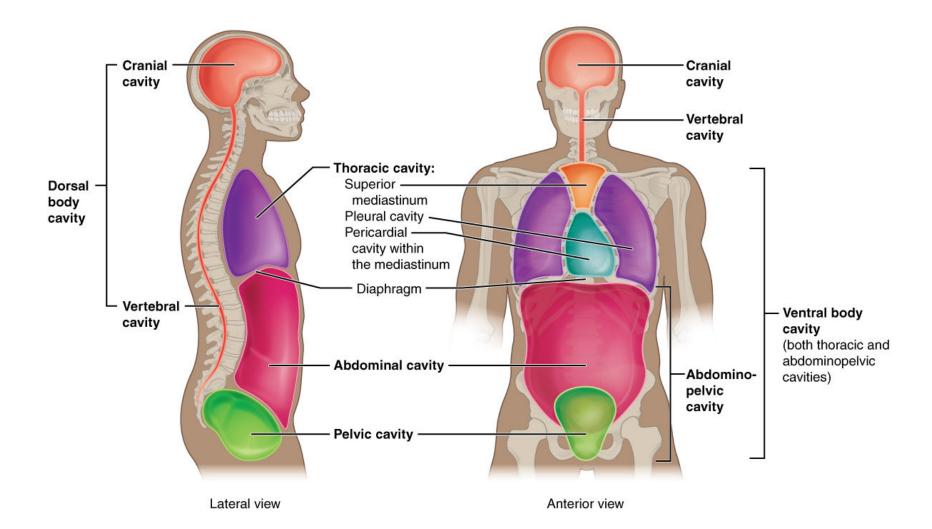
c. Special movements

Body Cavities

Cranial cavity
Vertebral canal
Thoracic cavity

- Pleural cavity
- Pericardial cavity
- Mediastinum

Abdomino-pelvic Cavity



Abdomino-pelvic Regions and Quadrants



Quiz

- 1. Which answer describes the anatomical position?
- Standing erect, facing observer, arms at side, palms facing to your side.
- b. Standing erect, facing observer, arms at side, palms facing forward.
- Standing erect, facing observer, arms at side, palms facing back.
- d. Standing erect, facing observer, arms at side, palms facing outward.

- 2. section separates the body into right and left portions.
- a. Frontal
- b. Transverse
- c. Dorsal
- d. Sagital

- 3. The cavity of the body immediately inferior to the diaphragm is the
- a. Pleural
- b. Thoracic
- c. Inguinal
- d. Abdominal

- 4. The anatomical term that means "away from the midline of the body" is
- a. Medial
- b. Proximal
- c. Distal
- d. Lateral

Thank you