ANATOMY AND PHYSIOLOGY

THE HUMAN BODY - AN ORIENTATION

Anatomy

 Studies the structure of body parts and their relationships.

Physiology

Study of how the body and its parts work or function.

Pathophysiology

Extract invertase from Bayer's yeast

ANATOMY - LEVELS OF STUDY

Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- Approached of study: Regional and Systemic Anatomy

Surface Anatomy

 Study of internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- Structures cannot be seen with the naked eye
- Structures can only be viewed with a microscope
- Subdivisions include cytology and histology

Developmental Anatomy

- Traces structural changes that occur in the body throughout the life span.
- Embryology concerns developmental changes that occur before birth

LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
 - 1. Position
 - 2. Direction
 - 3. Regions
 - 4. Structures

Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- Note: Four legged animals have different anatomical position than humans
 - Their ventral is on the inferior side and dorsal in the superior side.
 - In humans, ventral and anterior is the same and so is dorsal and posterior.



Anatomy And Physiology Chapter

Ruth E. McCall

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