

Chapter 1 Anatomy

- I. **Anatomy** (means to dissect) – the study of the structure of the body.
 - A. **Systemic Anatomy** – the study of the body's structure by systems – approach taken by most introductory text books.
 - B. **Regional Anatomy** – the study of the body's structure by region (head, abdomen, arm, etc...) – approach taken in most medical and dental schools.
 - C. **Surface Anatomy** – study of external features (bony projections) which serve to locate deeper structures.
 - D. **Anatomical Imaging** – technologies used to create pictures of internal structures (X-rays, ultrasound, magnetic resonance imaging (MRI)).

*C & D provide important information for diagnosing disease.

- II. **Physiology** – the study of the functions of the body and its parts.
 - A. Two Major Goals of Physiology
 1. Prediction of the body's responses to stimuli.
 2. How the body maintains conditions with-in a narrow range of values in the presence of a continually changing environment.
 - B. Physiology divisions
 1. The organism involved (**Human Physiology** – the study of a specific organism, the human)
 2. The levels of organization within a given organism (**cellular** and **systemic physiology** emphasize specific organizational levels)

- III. **7 Structural Levels**
 - A. **Chemical** – organization involving interactions among atoms and their combinations to form molecules.
 - B. **Organelles** – organizations of molecules to form the structures of the cell (nucleus, mitochondria, etc...)
 - C. **Cells** – organization by structure and function – the smallest basic living unit
 - D. **Tissue** - a group of similar cells and the material surrounding them, characteristics of these cells determine function – 4 primary types
 1. Epithelial
 2. Connective
 3. Muscle
 4. Nervous
 - E. **Organ** – composed of two or more tissue types that work together to perform one or more common functions – 12 major systems.
 - F. **Organ System** – a group of organs classified as a unit because of common functions.
 - G. **Organism** – any living thing considered as a whole whether composed of one cell (bacterium) or trillions of cells (human).

- IV. **6 Characteristics of Life**
 - A. **Organization** – condition in which the parts of an organism have specific relationships to each other and interact to perform specific functions.
 - B. **Metabolism** – the ability to use energy to perform vital functions.
 - C. **Responsiveness** – the ability to sense changes in the environment and make adjustments that help maintain life.
 - D. **Growth** – an increase in size of all or part of the organism.

Anatomy Chapter 1

Michael Gross



Anatomy Chapter 1:

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