

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the structure and function of the human body



Anatomy
The study of the structure of the human body

Physiology
The study of the function of the human body

Structural levels
The study of the human body at the level of the molecule, cell, tissue, organ, and system

- 1. Molecular level
- 2. Cellular level
- 3. Tissue level
- 4. Organ level
- 5. System level
- 6. Organism level

CELLS AND TISSUES

Cells are the basic units of structure and function of the human body



Characteristics of cells
1. All cells are eukaryotic
2. All cells are surrounded by a cell membrane
3. All cells contain genetic material (DNA)

Organization of cells into tissues
Cells are organized into tissues, which are groups of similar cells that work together to perform a specific function



NERVOUS SYSTEM

The nervous system is responsible for controlling and coordinating the body's activities



Structure of the nervous system
1. Central nervous system (CNS)
2. Peripheral nervous system (PNS)

Function of the nervous system
The nervous system receives information from the environment and the body, processes it, and sends out instructions to the muscles and glands to respond

MUSCULAR SYSTEM

Muscles are responsible for movement and maintaining posture



Structure of a muscle
1. Myofibrils
2. Sarcomeres
3. Myofibrillar proteins
4. Myofibrillar ATPase
5. Myofibrillar creatine kinase
6. Myofibrillar troponin
7. Myofibrillar tropomyosin

REPRODUCTION SYSTEM

The reproductive system is responsible for producing offspring



Male reproductive system
1. Testes
2. Epididymis
3. Vas deferens
4. Utricle
5. Seminal vesicle
6. Prostate gland
7. Urethra
8. Penis

Female reproductive system
1. Ovaries
2. Fallopian tubes
3. Uterus
4. Vagina
5. Vulva

IMMUNE SYSTEM

The immune system is responsible for defending the body against infection



Types of immune cells
1. White blood cells
2. T cells
3. B cells
4. Macrophages
5. Dendritic cells
6. Natural killer cells

Function of the immune system
The immune system identifies and destroys harmful pathogens and cancer cells

ENDOCRINE SYSTEM

The endocrine system is responsible for regulating the body's metabolism and growth



Major glands of the endocrine system
1. Pituitary gland
2. Thyroid gland
3. Adrenal gland
4. Pancreas
5. Hypothalamus
6. Pineal gland
7. Parathyroid glands

RESPIRATORY SYSTEM

The respiratory system is responsible for exchanging gases in the body



Structure of the respiratory system
1. Lungs
2. Trachea
3. Bronchi
4. Bronchioles
5. Alveoli
6. Diaphragm
7. Pleural cavity

17 PAGES PDF GUIDE

Anatomy And Physiology Pocket Guide

CH Cherryholmes



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