

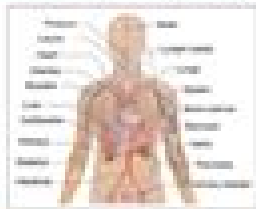
ANATOMY & PHYSIOLOGY

DIGITAL STUDY GUIDE

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the structure and function of the human body



Anatomy

The scientific study of the structure of the human body

Physiology

The scientific study of the function of the human body

Structural levels

Also known as the levels of organization of the human body

- 1. Chemical level: atoms and molecules
- 2. Cellular level: cells and tissues
- 3. Tissue level: groups of similar cells
- 4. Organ level: groups of different tissues
- 5. Organ system level: groups of organs
- 6. Organism level: the whole body

CELLS AND TISSUES

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



Characteristics of living organisms

Living organisms are characterized by the following features:

- 1. Organization: They are organized into a hierarchy of levels, from atoms and molecules to the whole organism.
- 2. Metabolism: They take in nutrients and energy from the environment and use them to build and maintain their structure.
- 3. Reproduction: They produce new individuals of their own kind.



The Epithelium: This is the outermost layer of cells that covers the body. It is composed of cells that are closely packed together and have a high degree of organization.

- 1. Epithelial cells: These are the cells that make up the epithelium.
- 2. Connective tissue: This is the tissue that holds the epithelial cells together.
- 3. Muscle tissue: This is the tissue that contracts and relaxes to produce movement.
- 4. Nervous tissue: This is the tissue that transmits electrical signals.

ORGANS

Organs are structures made up of different types of tissues that work together to perform a specific function

Examples of organs include the heart, lungs, stomach, and liver

Systems

Systems are groups of organs that work together to perform a specific function

Examples of systems include the digestive system and the circulatory system

Homeostasis

Homeostasis is the process by which the body maintains a stable internal environment

Examples of homeostatic processes include temperature regulation and blood sugar regulation

Homeostasis is essential for the survival of the organism



Homeostatic Imbalance

Homeostatic imbalance occurs when the body's internal environment is not stable

ORGAN SYSTEMS

Organ systems are groups of organs that work together to perform a specific function

Examples of organ systems include the digestive system and the circulatory system

Also known as the levels of organization of the human body



Homeostatic Imbalance

Homeostatic imbalance occurs when the body's internal environment is not stable

Examples of homeostatic imbalances include diabetes and hypertension

Homeostatic imbalance can lead to serious health problems if not treated

Homeostatic imbalance can be caused by a variety of factors, including genetics and lifestyle

Homeostatic imbalance can be treated with medication and lifestyle changes

Homeostatic imbalance can be prevented by maintaining a healthy lifestyle

Homeostatic imbalance can be diagnosed through medical tests

Homeostatic imbalance can be managed with a combination of medication and lifestyle changes

Homeostatic imbalance can be a sign of a more serious underlying condition

Homeostatic imbalance can be a chronic condition that requires ongoing management

Homeostatic imbalance can be a life-threatening condition if not treated

RESPIRATORY SYSTEM

Functions

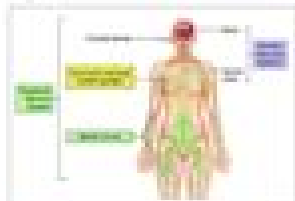
1. Ventilation: The process of moving air in and out of the lungs

2. Diffusion: The process of exchanging oxygen and carbon dioxide between the lungs and the blood

3. Gas exchange: The process of exchanging oxygen and carbon dioxide between the blood and the cells

4. Regulation: The process of maintaining the pH of the blood

5. Defense: The process of protecting the lungs from infection



Structure

The respiratory system is composed of the following parts:

1. Trachea: The windpipe, which carries air from the lungs to the rest of the body

2. Bronchi: The airways that branch off from the trachea

3. Lungs: The organs that exchange oxygen and carbon dioxide with the blood

4. Diaphragm: The muscle that contracts and relaxes to move air in and out of the lungs

5. Pleural cavity: The space between the lungs and the chest wall

CELLS OF EPITHELIUM

Epithelial cells are the cells that line the surfaces of the body

They are characterized by the following features:

1. Polarity: They have a distinct top and bottom surface

2. Adhesion: They are held together by tight junctions

3. Secretion: They can secrete substances

4. Protection: They form a barrier against the environment

5. Regeneration: They can divide to replace lost cells



Types of Epithelium

There are several types of epithelium:

1. Simple epithelium: Consists of a single layer of cells

2. Stratified epithelium: Consists of multiple layers of cells

3. Transitional epithelium: Can change from one type to another

4. Glandular epithelium: Can secrete substances

5. Mesothelium: Lines the body cavities

6. Endothelium: Lines the blood vessels

7. Epithelium of the eye: Lines the cornea and iris

8. Epithelium of the ear: Lines the ear canal

9. Epithelium of the nose: Lines the nasal cavity

10. Epithelium of the mouth: Lines the oral cavity

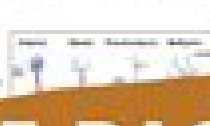
11. Epithelium of the skin: Forms the outer layer of the body

12. Epithelium of the digestive tract: Lines the gastrointestinal tract

13. Epithelium of the urinary tract: Lines the urinary system

14. Epithelium of the reproductive tract: Lines the reproductive system

15. Epithelium of the respiratory tract: Lines the respiratory system



ORGAN SYSTEMS OF THE BODY

The human body is composed of several organ systems:

1. Digestive system: Processes food and absorbs nutrients

2. Circulatory system: Transports blood throughout the body

3. Respiratory system: Exchanges oxygen and carbon dioxide

4. Nervous system: Controls and coordinates the body's activities

5. Endocrine system: Regulates the body's metabolism

6. Muscular system: Provides movement

7. Skeletal system: Provides support and protection

8. Integumentary system: Protects the body from the environment

9. Reproductive system: Produces offspring

10. Excretory system: Removes waste from the body

11. Immune system: Defends the body against infection

12. Sensory system: Detects and responds to the environment

13. Homeostatic system: Maintains the body's internal environment

14. Reproductive system: Produces offspring

15. Excretory system: Removes waste from the body

16. Immune system: Defends the body against infection

17. Sensory system: Detects and responds to the environment

18. Homeostatic system: Maintains the body's internal environment

19. Reproductive system: Produces offspring

20. Excretory system: Removes waste from the body

21. Immune system: Defends the body against infection

22. Sensory system: Detects and responds to the environment

23. Homeostatic system: Maintains the body's internal environment

24. Reproductive system: Produces offspring

25. Excretory system: Removes waste from the body

ENDOCRINE SYSTEM

The endocrine system is composed of the following glands:

1. Pituitary gland: Controls the growth and development of the body

2. Thyroid gland: Regulates the metabolism

3. Adrenal gland: Produces hormones that regulate the stress response

4. Pancreas: Produces insulin, which regulates blood sugar levels

5. Ovaries: Produce estrogen, which regulates the female reproductive system

6. Testes: Produce testosterone, which regulates the male reproductive system

7. Pineal gland: Regulates the sleep-wake cycle

8. Hypothalamus: Controls the pituitary gland

9. Parathyroid glands: Regulate calcium levels in the blood

10. Thymus gland: Produces thymosin, which regulates the immune system

11. Adipose tissue: Produces leptin, which regulates appetite

12. Skin: Produces vitamin D, which regulates bone health

13. Kidneys: Produce erythropoietin, which regulates red blood cell production

14. Liver: Produces albumin, which regulates blood volume

15. Intestine: Produces cholecystokinin, which regulates digestion

16. Stomach: Produces gastrin, which regulates stomach acid production

17. Pancreas: Produces somatostatin, which regulates insulin production

18. Pituitary gland: Produces growth hormone, which regulates growth

19. Thyroid gland: Produces thyroxine, which regulates metabolism

20. Adrenal gland: Produces cortisol, which regulates stress response

21. Ovaries: Produce progesterone, which regulates the female reproductive system

22. Testes: Produce testosterone, which regulates the male reproductive system

23. Pineal gland: Produces melatonin, which regulates sleep

24. Hypothalamus: Produces vasopressin, which regulates water balance

25. Parathyroid glands: Produce parathyroid hormone, which regulates calcium levels



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