

ANATOMY AND PHYSIOLOGY

23 PAGES GUIDE

Visual learner Notes

Introduction to Anatomy and Physiology

Definition: The study of the structure and function of the human body.

Branches:

- Anatomy:** The study of the structure of the body.
- Physiology:** The study of the function of the body.

Levels of Organization:

1. Chemical level
2. Cellular level
3. Tissue level
4. Organ level
5. Organ system level
6. Organism level

Homeostasis

Definition: The process by which the body maintains a stable internal environment.

Components:

- Stimulus:** A change in the environment that triggers a response.
- Receptor:** A sensor that detects the stimulus.
- Control Center:** The brain or other part of the body that processes the information from the receptor.
- Effector:** A muscle or gland that carries out the response.

Cell Structure

Prokaryotic Cell: A simple cell without a nucleus.

- 1. Cell wall
- 2. Plasma membrane
- 3. Cytoplasm
- 4. Ribosomes
- 5. Nucleoid

Eukaryotic Cell: A complex cell with a nucleus.

- 1. Cell wall
- 2. Plasma membrane
- 3. Cytoplasm
- 4. Ribosomes
- 5. Nucleus
- 6. Mitochondria
- 7. Golgi apparatus
- 8. Endoplasmic reticulum

Connective Tissues

Definition: Tissues that support and connect other tissues.

Types:

- Epithelial Tissue:** Covers the body and organs.
- Connective Tissue:** Supports and connects other tissues.
- Muscle Tissue:** Contracts to produce movement.
- Nervous Tissue:** Transmits electrical signals.

Integumentary System

Definition: The system of the body that covers and protects it.

Components:

- Skin:** The outer layer of the body.
- Hair:** Projections from the skin.
- Nails:** Hard structures at the end of fingers and toes.

Cardiovascular System

Definition: The system of the body that transports blood.

Components:

- Heart:** The pump that circulates blood.
- Blood Vessels:** Tubes that carry blood to and from the heart.
- Blood:** The fluid that carries oxygen and nutrients.

Respiratory System

Definition: The system of the body that takes in oxygen and removes carbon dioxide.

Components:

- Lungs:** The organs that exchange gases.
- Trachea:** The windpipe that carries air to the lungs.
- Diaphragm:** The muscle that contracts and relaxes to breathe.

Digestive System

Definition: The system of the body that breaks down food into nutrients.

Components:

- Mouth:** Where food is taken in and chewed.
- Stomach:** Where food is broken down by acids.
- Small Intestine:** Where nutrients are absorbed.
- Large Intestine:** Where water is absorbed and waste is eliminated.

Endocrine System

Definition: The system of the body that uses hormones to regulate functions.

Components:

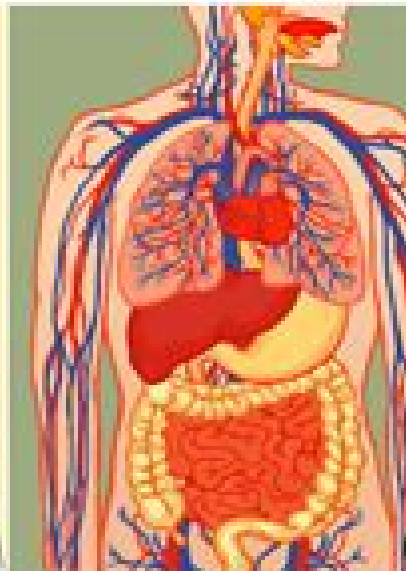
- Hypothalamus:** The brain's control center for hormones.
- Pituitary Gland:** The master gland that controls other glands.
- Thyroid Gland:** Regulates metabolism.
- Adrenal Gland:** Produces hormones like adrenaline.

Immune System

Definition: The system of the body that defends against disease.

Components:

- White Blood Cells:** Cells that fight infection.
- Antibodies:** Proteins that mark invaders for destruction.
- Lymphatic System:** The system that carries lymph and fights disease.



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Reproductive System

Male:

- Testes:** Produce sperm and testosterone.
- Vas Deferens:** Tube that carries sperm from the testes.
- Urethra:** Tube that carries urine and sperm.

Female:

- Ovaries:** Produce eggs and estrogen.
- Fallopian Tubes:** Tubes that carry eggs from the ovaries.
- Vagina:** The birth canal.

Urinary System

Definition: The system of the body that filters waste from the blood.

Components:

- Kidneys:** The organs that filter blood.
- Ureters:** Tubes that carry urine from the kidneys.
- Bladder:** The sac that stores urine.
- Urethra:** The tube that carries urine out of the body.

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David Kirk



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