

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Body structure and function



Objectives

- 1. Identify the major organs of the human body.
- 2. Describe the functions of the major organs.

Structure

- 1. **Head** - Brain, eyes, ears, nose, mouth.
- 2. **Torso** - Heart, lungs, stomach, liver, pancreas, spleen, kidneys.
- 3. **Limbs** - Arms, legs, hands, feet.

CELLS AND TISSUES

Structure and function



Objectives

- 1. Identify the major organelles of a cell.
- 2. Describe the functions of the major organelles.

Structure

- 1. **Cell Wall** - Provides structural support and protection.
- 2. **Cell Membrane** - Controls the movement of substances in and out of the cell.
- 3. **Nucleus** - Contains genetic material (DNA) and controls cell activities.
- 4. **Mitochondria** - Site of cellular respiration, producing energy for the cell.
- 5. **Rough Endoplasmic Reticulum** - Site of protein synthesis.
- 6. **Golgi Apparatus** - Packages and transports proteins.
- 7. **Lysosomes** - Break down waste materials and cellular debris.

NERVOUS SYSTEM

Structure and function



Objectives

- 1. Identify the major parts of the nervous system.
- 2. Describe the functions of the major parts.

Structure

- 1. **Brain** - Controls and coordinates all activities of the body.
- 2. **Spinal Cord** - Transmits information between the brain and the rest of the body.
- 3. **Nerves** - Carry messages between the brain and the rest of the body.

MUSCULAR SYSTEM

Structure and function



Objectives

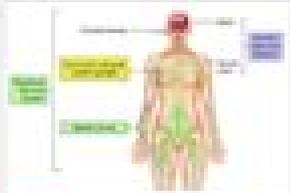
- 1. Identify the major parts of the muscular system.
- 2. Describe the functions of the major parts.

Structure

- 1. **Muscle Fibers** - Contract to produce movement.
- 2. **Muscle Spindles** - Detect changes in muscle length.
- 3. **Motor Units** - A single motor neuron and all the muscle fibers it innervates.

RESPIRATORY SYSTEM

Structure and function



Objectives

- 1. Identify the major parts of the respiratory system.
- 2. Describe the functions of the major parts.

Structure

- 1. **Nose** - Entry point for air.
- 2. **Trachea** - Windpipe that carries air to the lungs.
- 3. **Bronchi** - Branches of the trachea that lead to the lungs.
- 4. **Lungs** - Organs where gas exchange occurs.

EXCRETORY SYSTEM

Structure and function



Objectives

- 1. Identify the major parts of the excretory system.
- 2. Describe the functions of the major parts.

Structure

- 1. **Kidneys** - Filter waste from the blood.
- 2. **Ureters** - Carry urine from the kidneys to the bladder.
- 3. **Bladder** - Stores urine until it is ready to be excreted.

ENDOCRINE SYSTEM

Structure and function



Objectives

- 1. Identify the major glands of the endocrine system.
- 2. Describe the functions of the major glands.

Structure

- 1. **Pituitary Gland** - Master gland that controls other glands.
- 2. **Thyroid Gland** - Regulates metabolism.
- 3. **Adrenal Glands** - Produce hormones like adrenaline.

REPRODUCTIVE SYSTEM

Structure and function



Objectives

- 1. Identify the major parts of the reproductive system.
- 2. Describe the functions of the major parts.

Structure

- 1. **Male Reproductive System** - Produces and transports sperm.
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