

Bones, Muscles and Skin

The Skeletal System

There are five major functions of the skeletal system:

1. Enables you to move around
2. Protects internal organs
3. Provides support and determines the shape of your body
4. Stores materials
5. Produces blood cells

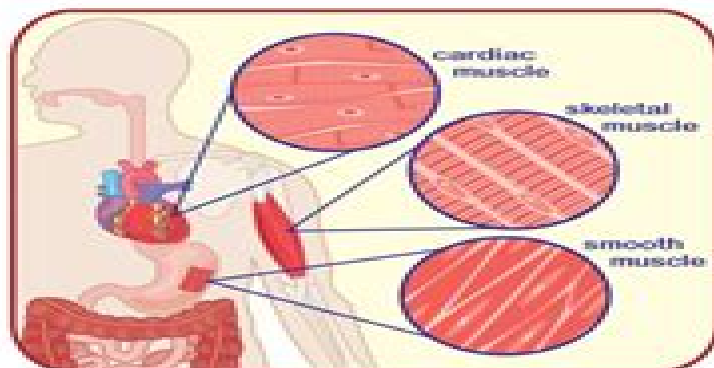
The structure of a bone consists of an outer layer of hard connective tissue. Beneath the outer layer is the **compact bone tissue** followed by the **spongy bone tissue**. The spongy bone tissue gives the bone its lightweight and provides strength. The spaces within the bone are filled with **marrow**, a soft connective tissue within bones. The two types of marrow are yellow and red. The **yellow marrow** stores fat and other materials to use for energy when necessary. The **red marrow** produces blood cells for the body.

Cartilage is a connective tissue that is flexible and strong, but softer than bone. Cartilage covers the ends of many bones and acts like a cushion, protecting the bones from being damaged.

Types of joints



Every place in your body where two bones come together is called a **joint**. The body has four kinds of **movable joints** — ball and socket, hinge, pivot, and gliding joints. Immovable joints are joints between bones that do not allow movement. Examples of **immovable joints** are the joints between the bones of the skull.



The Muscular System

Muscles that you are able to control are called **voluntary muscles**. Muscles that you are not able to control are called **involuntary muscles**.

Types of muscles

There are three types of muscle tissue in the human body: **skeletal muscle**, **smooth muscle** and **cardiac muscle**.

Skeletal muscles are voluntary muscles that are attached to the bones of your **skeleton**. These muscles provide you with the ability to move. At each end of a muscle is a strong connective tissue that attaches your muscles to bones called a **tendon**.

Smooth muscles are involuntary muscles that are on the insides of internal organs. These muscles work automatically to control many functions of the body.

Cardiac muscle has characteristics in common with both skeletal and smooth muscles.

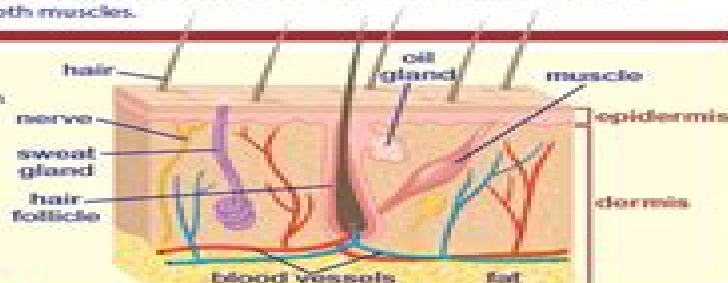


The Skin

The **skin** covers the body, prevents water loss, gathers information from the environment, eliminates waste, protects the body from injury and infection, produces vitamin D, and regulates the body's temperature. There are two main layers of the skin: the **dermis** and the **epidermis**.

The **dermis** is the inner layer of skin, just above a layer of fat, which contains nerves, blood vessels, hairs, oil glands, and sweat glands.

The **epidermis** is the outermost layer of skin that is thinner than the dermis and does not contain blood vessels or nerve cells.



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Bones Muscles And Skin Connecting Concepts

Patrick Vollmar



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