

Muscular system

Muscles are soft tissues composed of tubular cells called myocytes

Half of the body weight is muscle tissue. Male – 40% & female – 32%

Properties of muscles

1. Contractibility: muscle pulls & shorten with force
2. Excitability: from polarized to depolarized
3. Elasticity: return to original length during relaxation
4. Extensibility: can stretch or extend

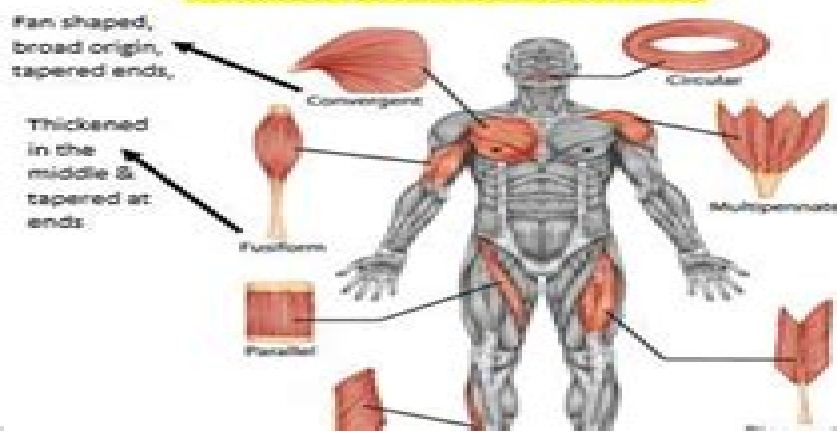
Functions of Muscles

- 1) Produce movement
- 2) Maintain posture
- 3) Stabilize joints
- 4) Produce heat

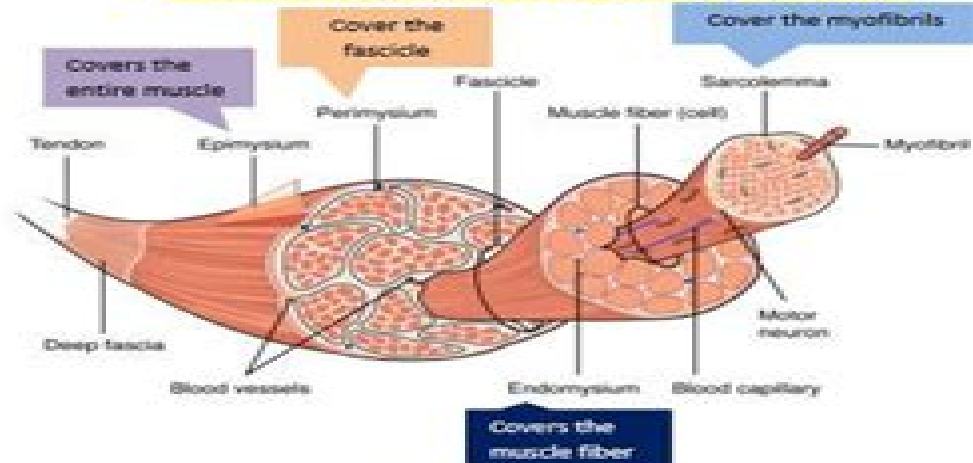
Types of muscles

	Main features	Histology
Skeletal muscle	- Fibers: striated, tubular and multi nucleated - Voluntary - Usually attached to skeleton	
Smooth muscle	- Fibers: non-striated, spindle-shaped, and uninucleated - Involuntary - Usually covering wall of internal organs	
Cardiac muscle	- Fibers: striated, branched and uninucleated - Involuntary - Only covering walls of the heart	

Classification of muscles



Connective Tissue Layers of Muscle

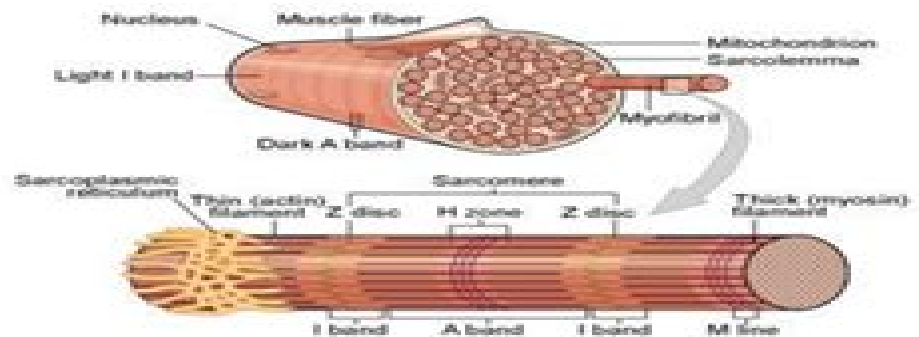


Muscle Fiber

Muscle Fiber: a single cylindrical muscle cell

Myofibril: a basic rod-like organelle of a muscle cell.

Sarcomere: the basic contractile unit of muscle fiber exists from Z-line to Z-line. It is responsible for striation.



A band: dark band (overlapping thick & thin filaments)

I band: light band (Thin filaments only)

Z disc: the lateral borders of sarcomeres and are the smallest functional units in striated muscle.

H zone: is in the center of the A band where there is no overlap between the thick and the thin filaments.

M line: attachment site for the thick filaments

Human Muscular System Study Guide

S Ashworth



Human Muscular System Study Guide:

Muscular System (Human) Speedy Study Guides Speedy Publishing, 2014-07-22 The function of the muscular system is to allow for kinetic movement of the body The muscles expand and contract providing the energy for the various parts of the body to move Students studying biology or medicine would greatly benefit from this pamphlet which depicts the structures of the various muscle group with detailed diagrams making it easy from them to remember the different types of muscles and its components

Muscular System (Speedy Study Guides) Speedy Publishing, 2014-06-21 The muscular system is the network of body tissue or muscle bands that are formed over your skeleton frame The muscles in conjunction with the skeleton and the body s nervous system work together to move the body and guide it through various activities and positions Certain muscles are more dense than others as a result of certain activities such as cycling or weightlifting which helps develops the thighs or arms and which are expected to carry heavier loads A chart of the muscular system would be beneficial in helping one understand what muscles are located where in the human body If one seeks to improve their ability in a particular function the chart will assist in describing which muscles to train

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