

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

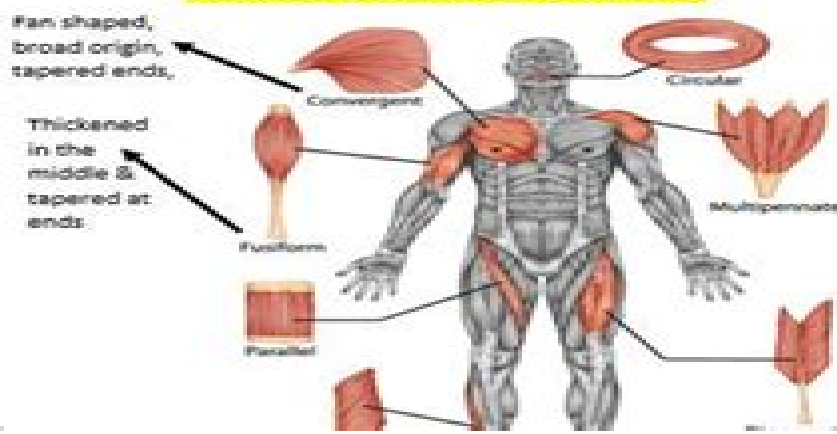
Functions of Muscles

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

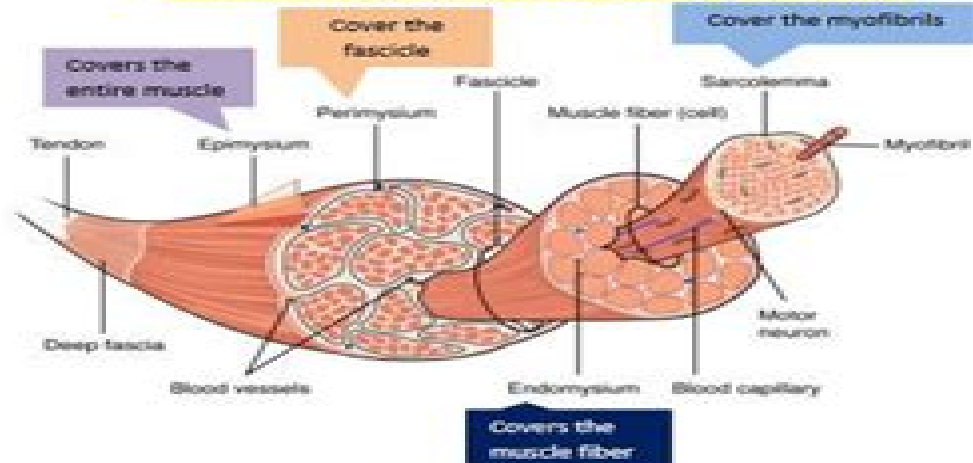
Types of muscles

	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

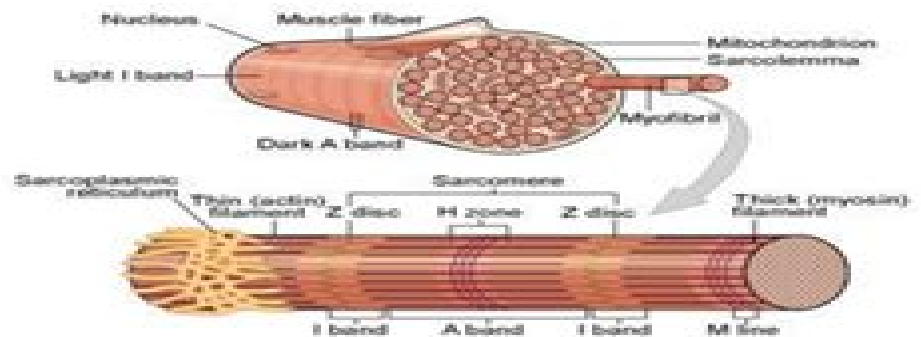


Muscle Fiber

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

Pasquale De Marco



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