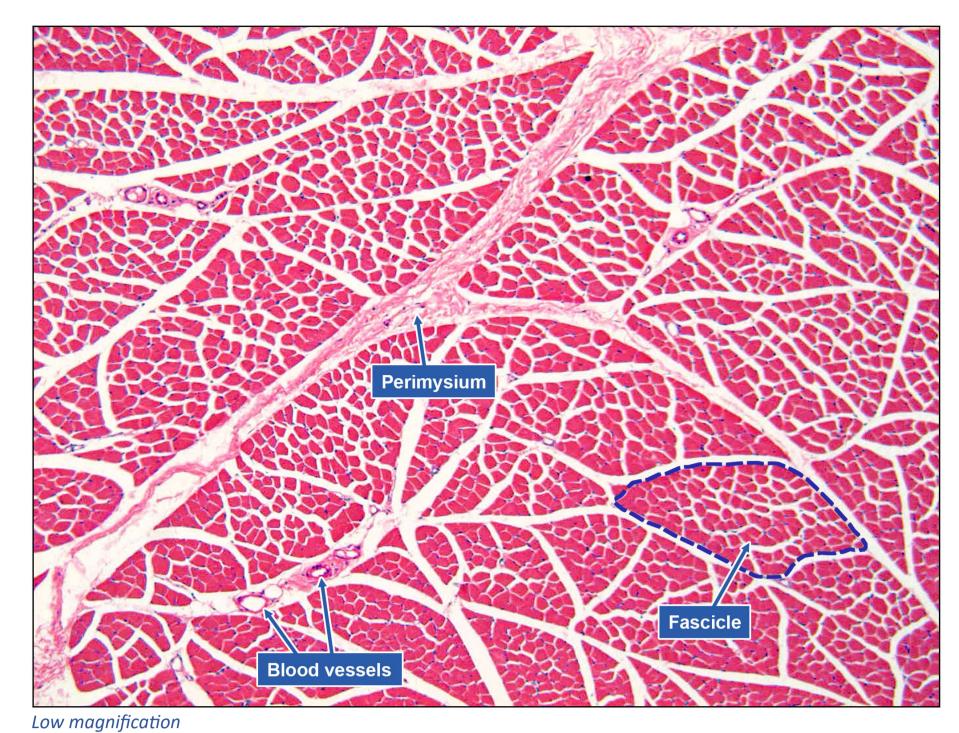
SKELETAL MUSCLE

Musculoskeletal System

Skeletal muscle is an excitable, contractile

tissue. It is responsible for posture and movements.





- - cellular unit of a skeletal muscle.

2. Muscle fibres are striated, multinucleated

1. Skeletal Muscle Fibres are the basic

ranging from 10 to 100 micrometre in diameter. 3. A distinctive feature of skeletal muscle

the sarcolemma.

fibres is the presence of the nuclei under

4. Sarcolemma is the plasma membrane of muscle fibres: a tubular sheath en compassing each muscle fibre, acting as a barrier between extracellular and intracellular compartments. 5. Each muscle fibre is surrounded by a

thin layer of reticular fibres and dispersed

- fibroblasts (connective tissue) known as the **endomysium** covering the sarcolemma. Capillaries and nerve tissue are present in the endomysium. 6. Bundles of muscle fibres make up a fascicle.
- 7. Perimysium is a connective tissue layer

which surrounds muscle fascicles.

- 8. The nerves, blood supply, and lymphatics for each fascicle enters through the perimysium.
- **9. Epimysium** is a dense fibrous irregular connective tissue and surrounds the whole muscle.
- 10. Skeletal muscles may undergo a condition known as atrophy. This may result from conditions such as denervation, systemic illness, chronic glucocorticoid use, and

malnutrition. This leads to reduced muscle

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mass.