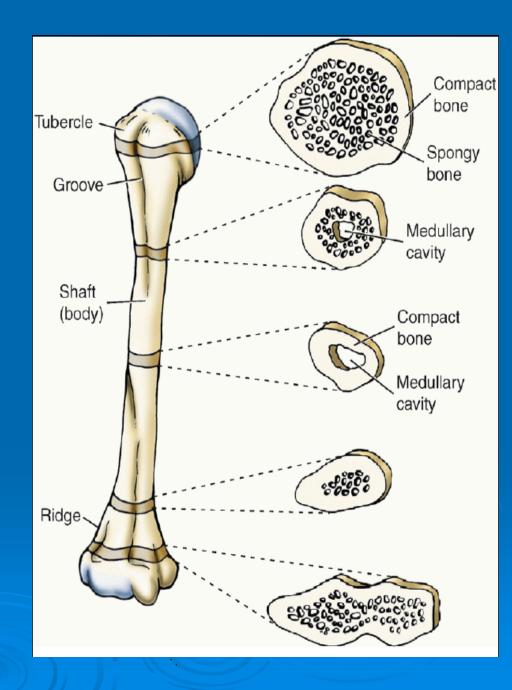
## GENERAL OSTEOLOGY

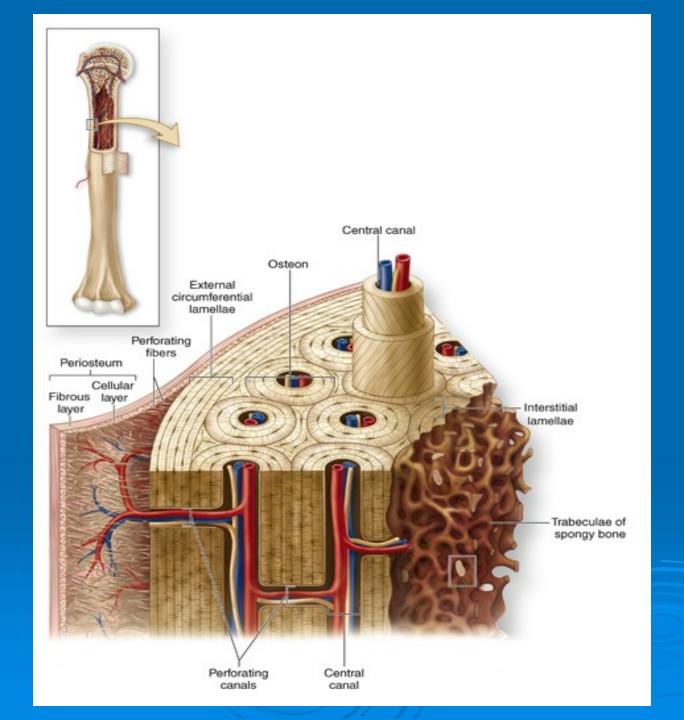
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- the skeletal system (osteology) consists of bones and cartilage
- provides our basic shape and support for the body and is what the muscular system acts on to produce movement
- protects vital organs such as the heart, lungs, and pelvic organs

## Bones

- two types of bone:
  - 1) compact bone
  - 2) spongy bone
- have a superficial thin layer of compact bone around a central mass of spongy bone, except where the latter is replaced by a medullary cavity





## Classification, markings & formations of bones

- Long bones: diaphyses and epiphyses
- Short bones: cuboidal in shape; carpal and tarsal bones
- Flat bones: thin and flat; scapula, vault of the skull → cancellous layer = diploe with red bone marrow
- Irreagular bones: fit none of the previous description
- Sesamoid bones: develop in certain tendons and are found where tendons cross the ends of long bones in the limbs; patella

- capitulum: small, round, articular head
- condyle: rounded, knuckle-like articular area, often occurring in pairs
- crest: ridge of bone
- epicondyle: eminence superior to a condyle
- facet: smooth flat area, usually covered with cartilage → bone articulates with another bone
- foramen: passage through a bone
- fossa: hollow or depressed area
- groove: elongated depression or furrow

- head (caput): large, round articular end
- line: linear elevation
- malleolus: rounded process
- notch: indentation at the edge of a bone
- protuberance: projection of bone
- spine: thorn-like process
- spinous process: projecting spine-like part
- trochanter: large blunt elevation
- trochlea: spool-like articular process or process that acts as a pulley
- tubercle: small raised eminence
- tuberosity: large rounded elevation

## Cartilage

- Specialized supporting connective tissue
- No neurovascular elements
- Hyaline: bluish-white, in fetal skeleton, in adult are remnants; articular, costal cartilages
- Elastic: yellowish; external ear and epiglottis
- Fibrocartilage: more collagen fibers; tendon insertions and intervertebral discs