

SKELETAL SYSTEM



READ: Chapter 10, pages 181-193

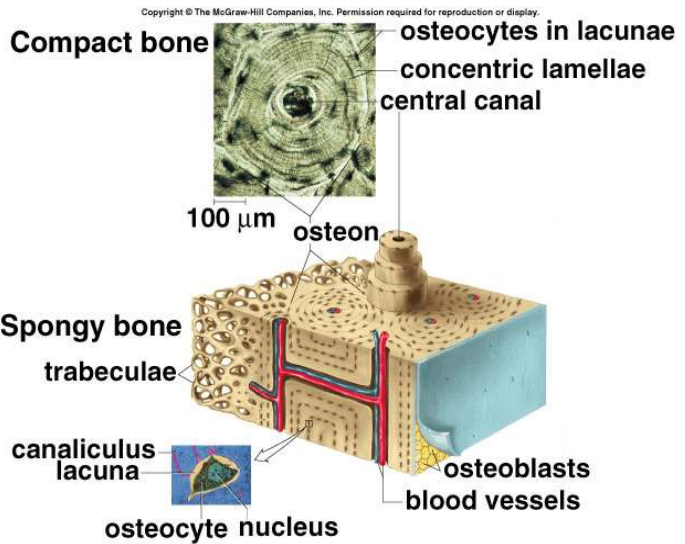
A. Bone Structure

1) Tissues -

a) Bone

compact bone -

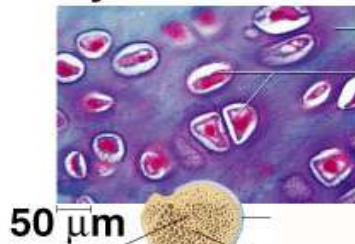
spongy bone -



b) Cartilage -

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Hyaline cartilage

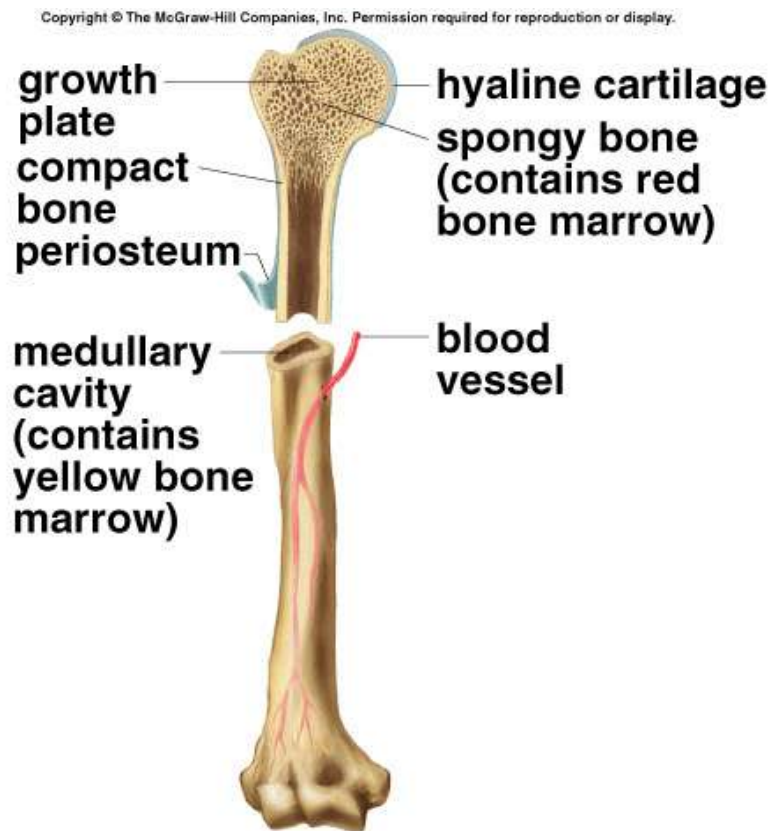


c) Ligaments -

d) Tendons -



2) Long Bone Anatomy



- a) epiphyses -
- b) diaphysis
- c) articular cartilage
- d) growth plate
- e) periosteum
- f) compact bone
- g) spongy bone and red marrow
- h) medullary (marrow) cavity

3) Bone is hardened by ossification (ossified cartilage) -

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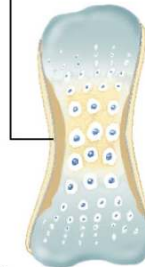
cartilaginous model



a.

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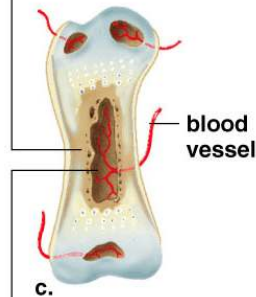
developing periosteum



b.

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compact bone developing

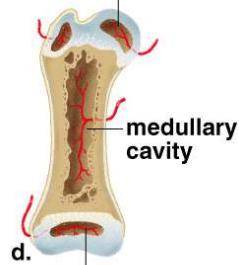


c.

primary ossification center

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secondary ossification center

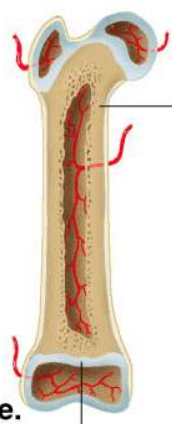


d.

secondary ossification center

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compact bone

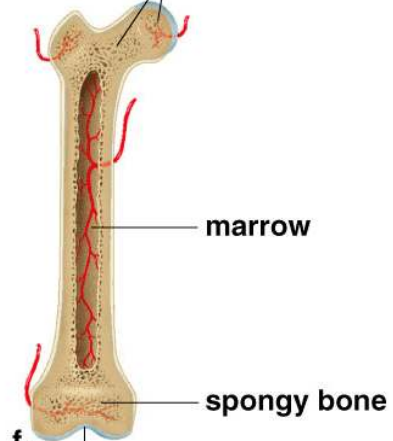


e.

growth plate

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spongy bone



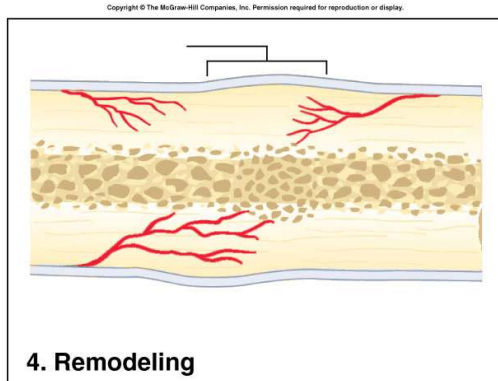
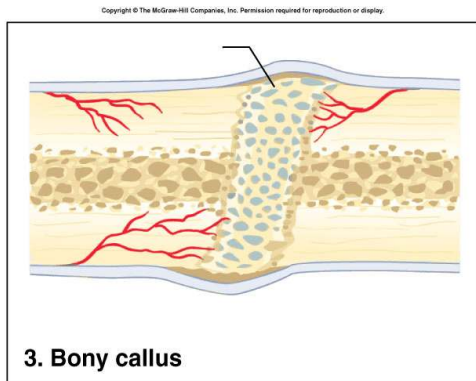
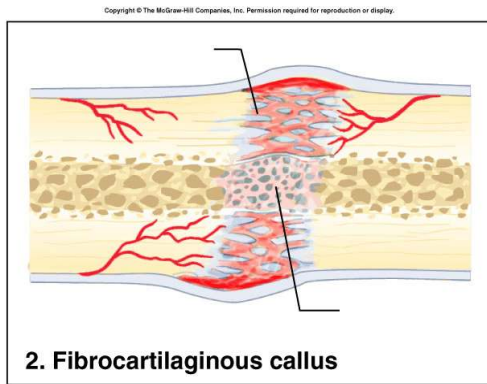
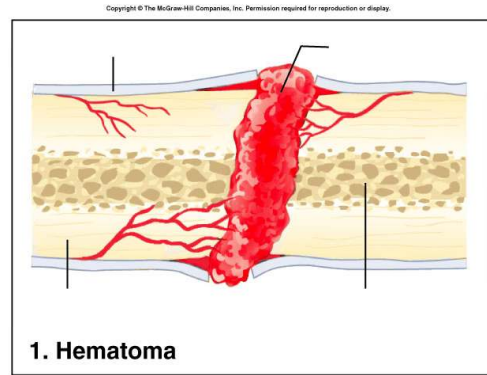
f.

marrow

spongy bone

articular cartilage

4) How does a broken bone heal?



5) Osteoporosis -

Risk factors -

Prevention -

6) Bones of the Skeleton (be able to identify these):

Axial skeleton -

Appendicular Skeleton -

