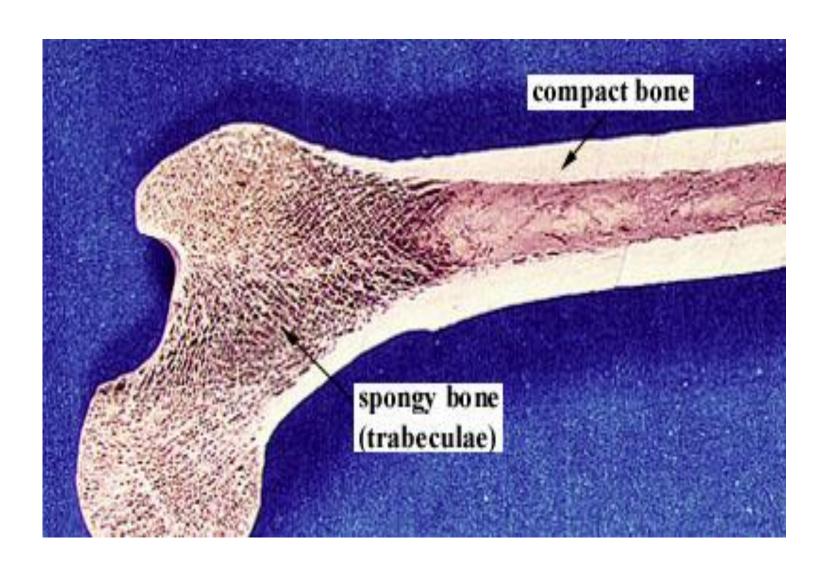
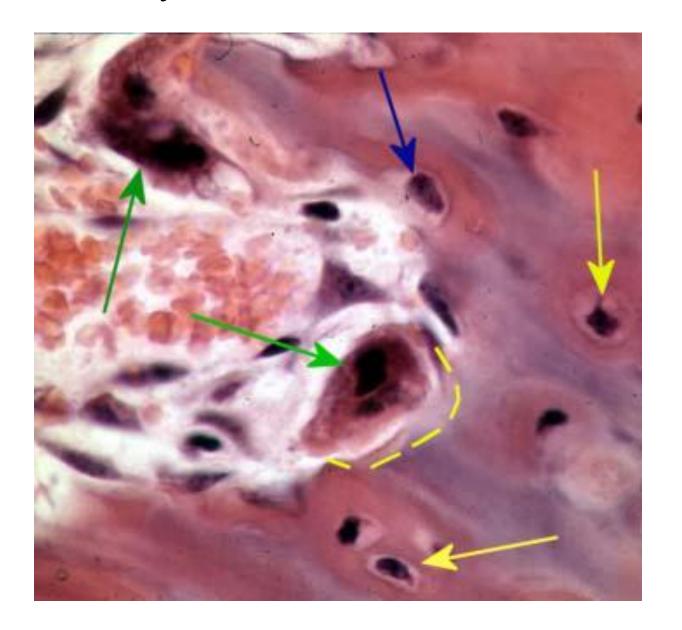
Osteology Review Slides

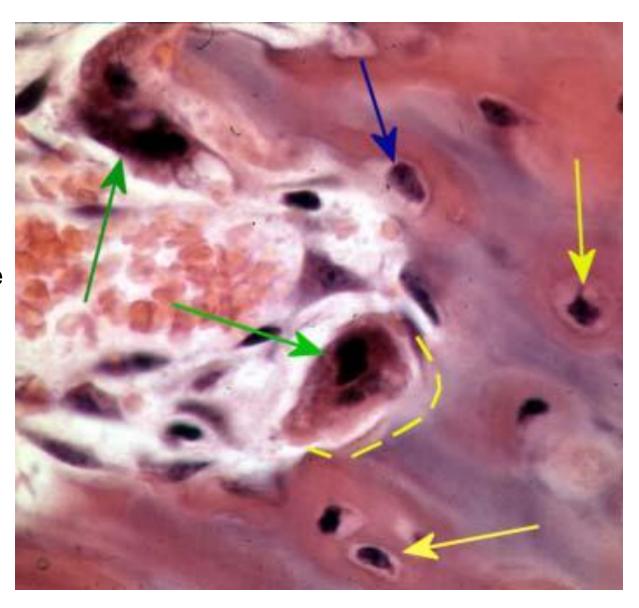


Identify: Osteocytes, Osteoblast and Osteoclasts

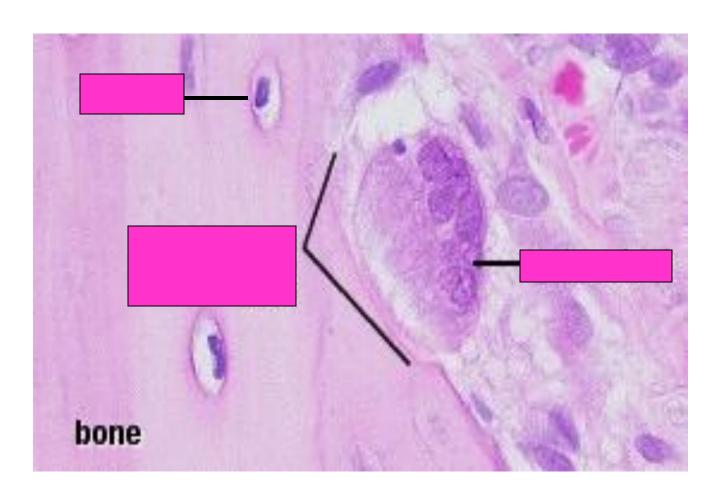


Identify: Osteocytes, Osteoblast and Osteoclasts

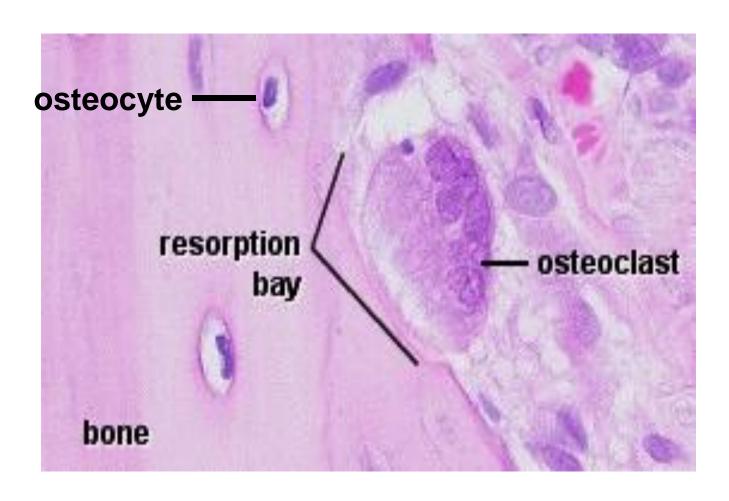
Yellow arrows indicate osteocytes – notice how they are surrounded by the pinkish bone matrix. Blue arrow shows an osteoblast in the process of becoming an osteocyte. Green arrows indicate **Osteoclasts**



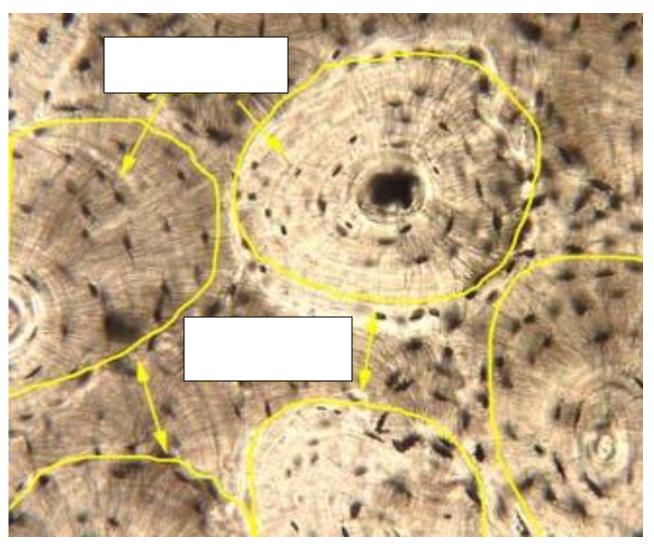
Identify: Osteoclast, Osteocyte, Resorption bay



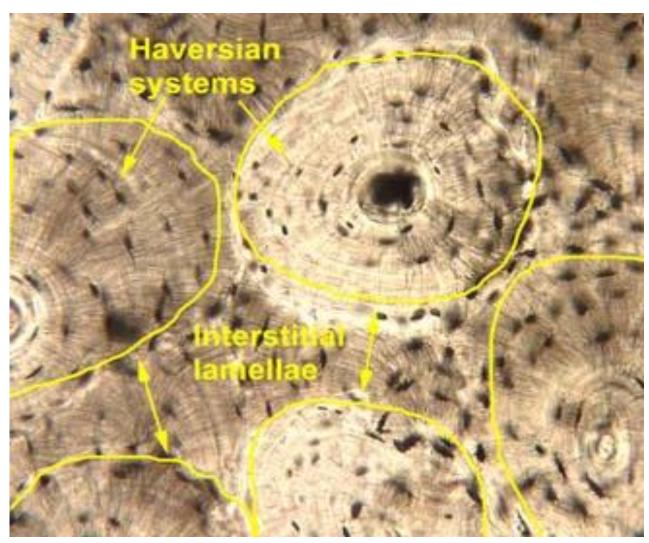
Identify: Osteoclast, Osteocyte, Resorption bay



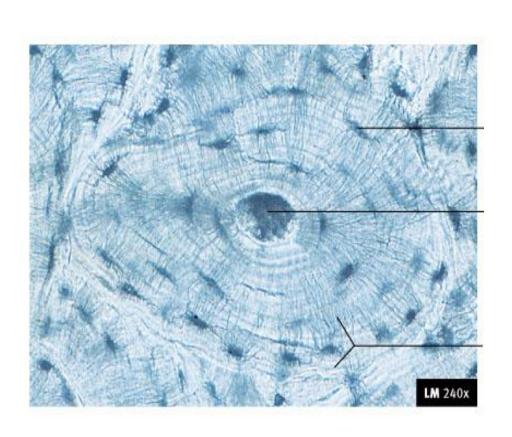
Identify: Osteons (Haversian systems) and Interstitial Lamellae

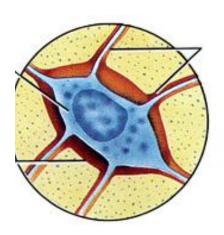


Identify: Osteons (Haversian systems) and Interstitial Lamellae

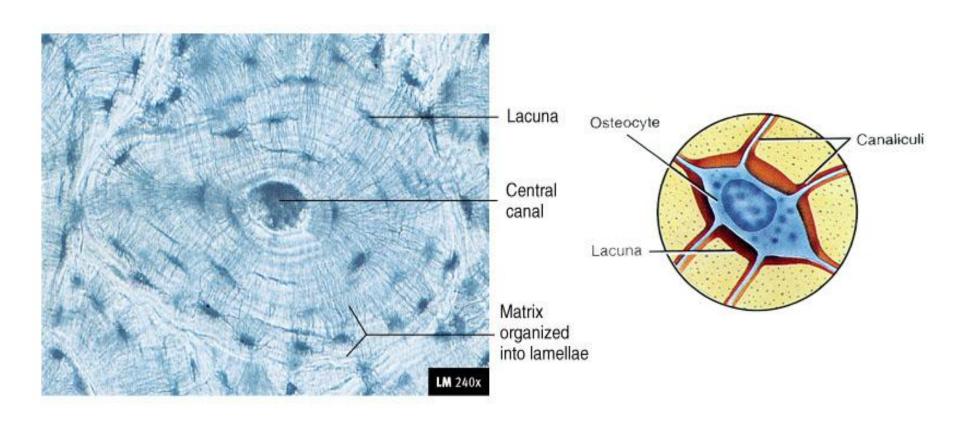


Identify: Lacuna, Osteocyte, Central Canal, Lamellae

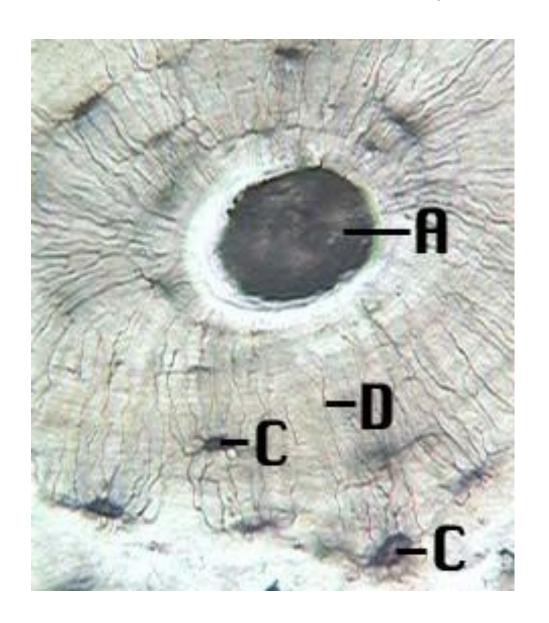




Identify: Lacuna, Osteocyte, Central Canal, Lamellae



Identify: Central Canal, Canaliculi, Osteocyte within Lacuna

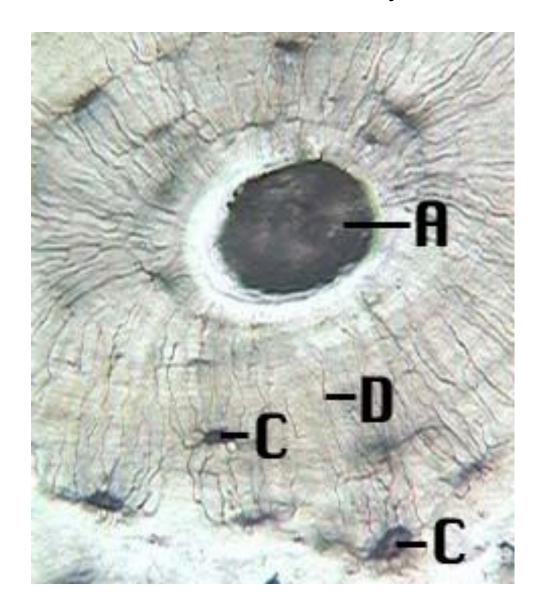


Identify: Central Canal, Canaliculi, Osteocyte within Lacuna

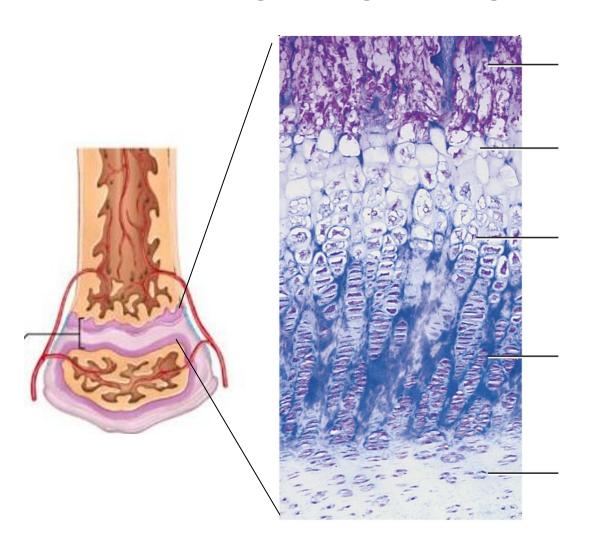
A = Central Canal

D = Canaliculi

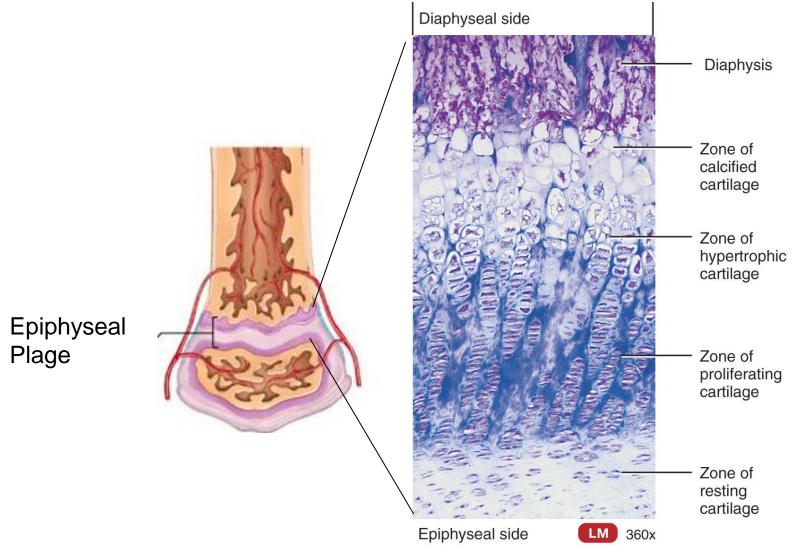
C = Osteocyte contained within Lacunae



Identify: Epiphyseal Plate, Diaphyseal Side, Epiphyseal Side, Diaphysis, Zones of Calcified Cartilage, Hypertrophic Cartilage, Proliferating Cartilage, Resting Cartilage

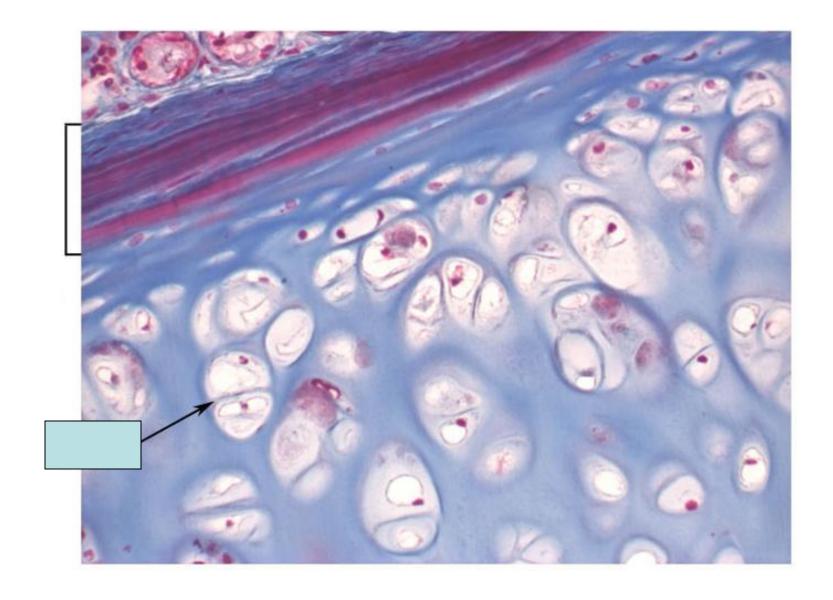


Identify: Epiphyseal Plate, Diaphyseal Side, Epiphyseal Side, Diaphysis, Zones of Calcified Cartilage, Hypertrophic Cartilage, Proliferating Cartilage, Resting Cartilage



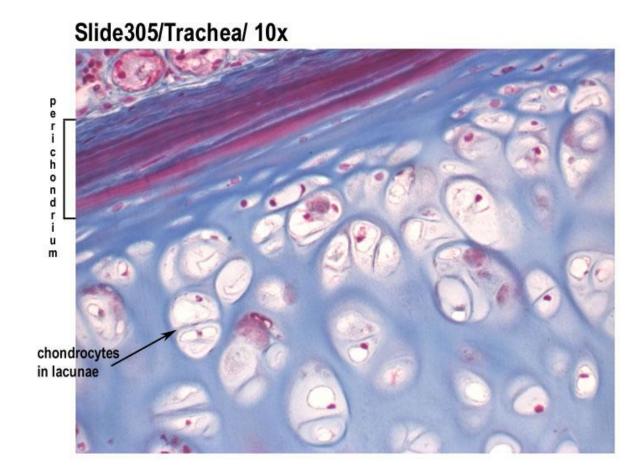
(b) Histology of the epiphyseal plate

Identify: Perichondrium, Chondrocytes, Lacunae What is the difference between the periosteum and the perichondrium

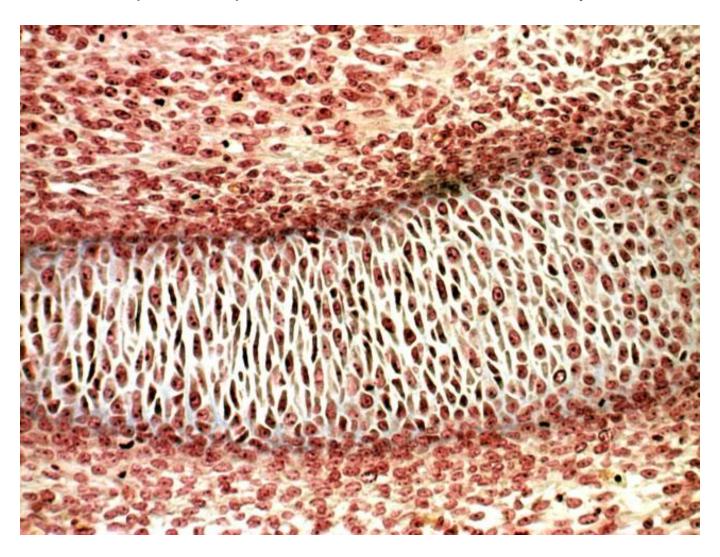


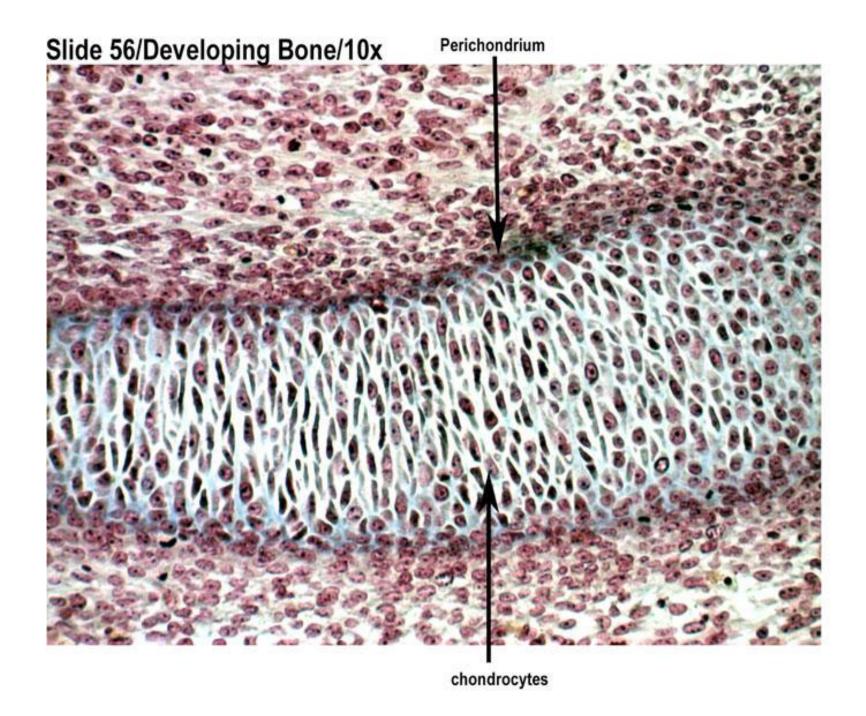
Identify: Perichondrium, Chondrocytes, Lacunae What is the difference between the periosteum and the perichondrium

Periostem covers and delimits bone and contains osteoblast progenitors, whereas perichondrium covers and delimits cartilage and contains chondroblast progenitors

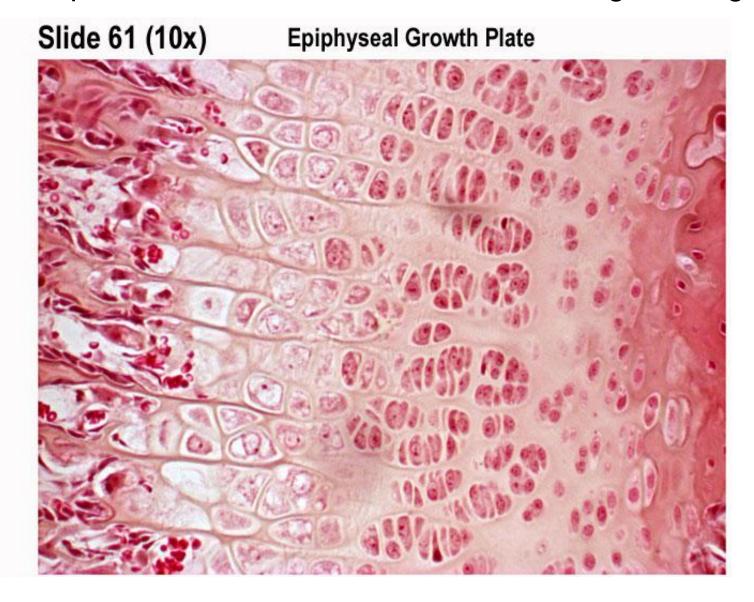


This is a slide taken early in the process of endochondral bone formation. This is a cartilage model of bone, consisting primarily of chondrocytes which have differentiated from mesenchyme. Identify the flattened cells surrounding the cartilage which comprise the perichondrium and the chondrocytes

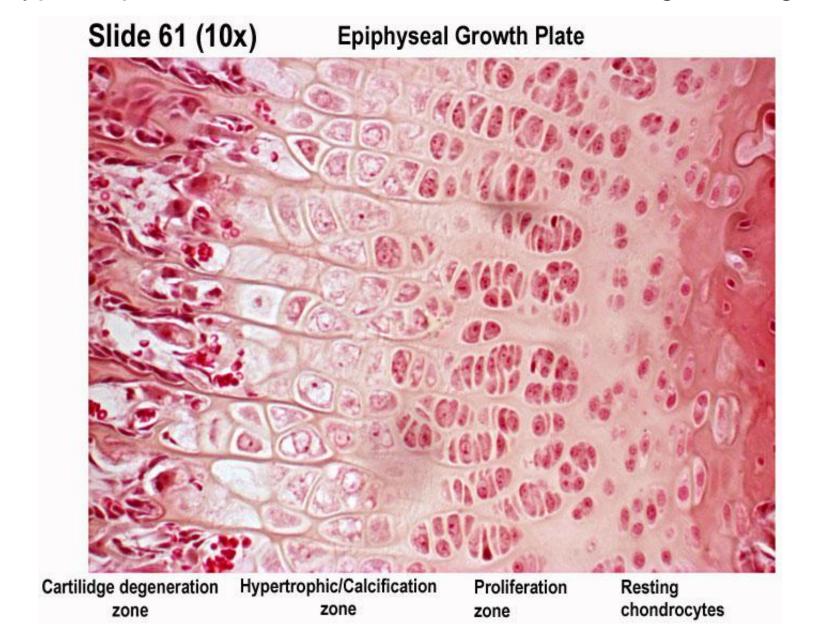




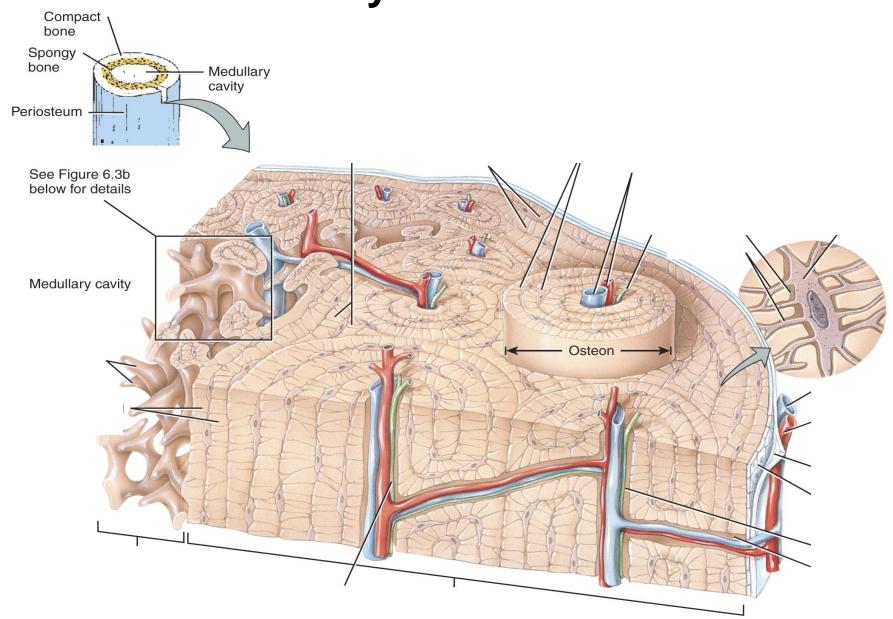
Identify: Zones of Cartilage degeneration, Hypertrophic/Calcification, Proliferation, Resting Cartilage



Identify: Zones of Cartilage degeneration, Hypertrophic/Calcification, Proliferation, Resting Cartilage



Identify: All Structures



Identify: All Structures

