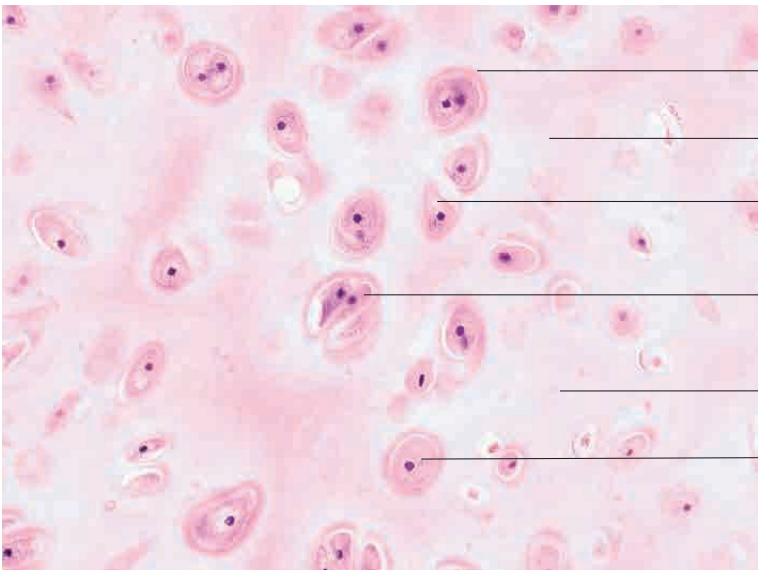
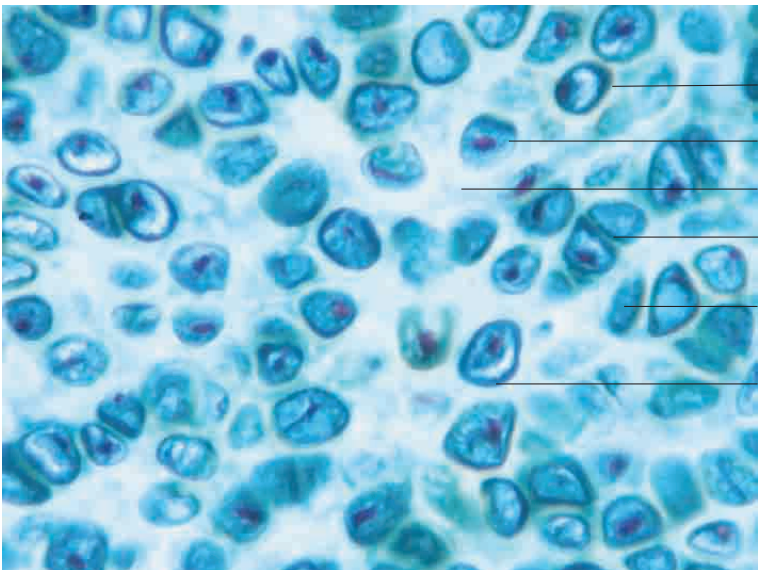
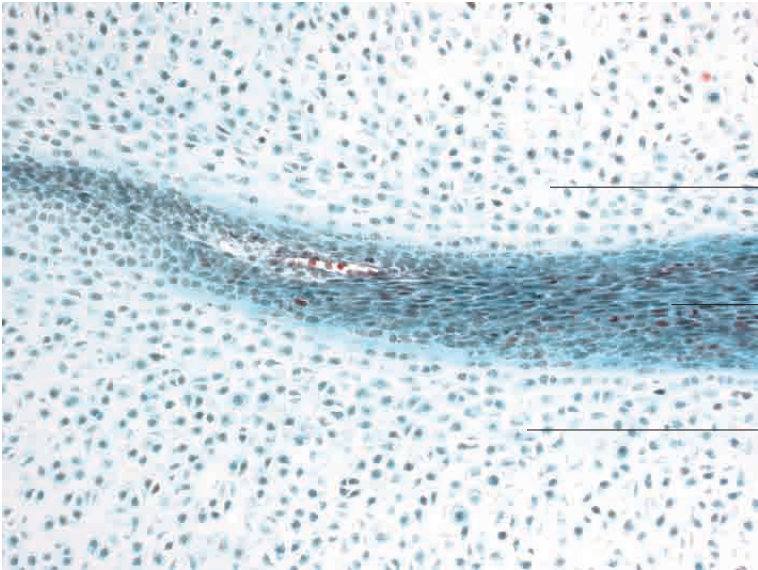
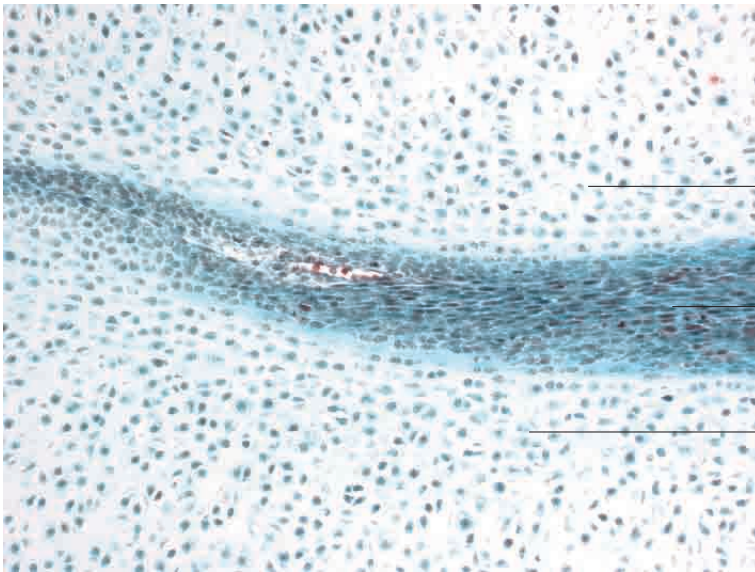


3 Connective and supportive tissue



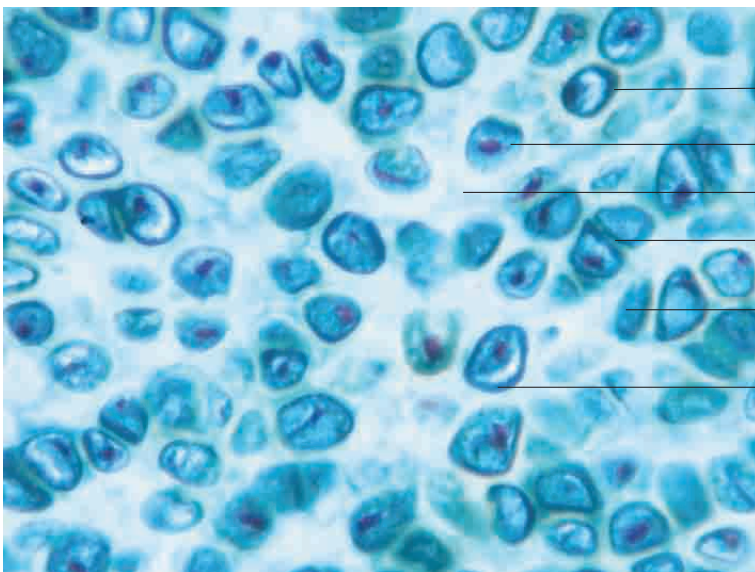


Interterritorial matrix

Perichondrium with chondroblasts and capillaries in loose connective tissue

Chondrocytes

Hyaline cartilage, embryonic tissue, foetal cat. Masson's trichrome stain; x40.



Cartilage cell with capsular matrix

Nucleus of a chondrocyte

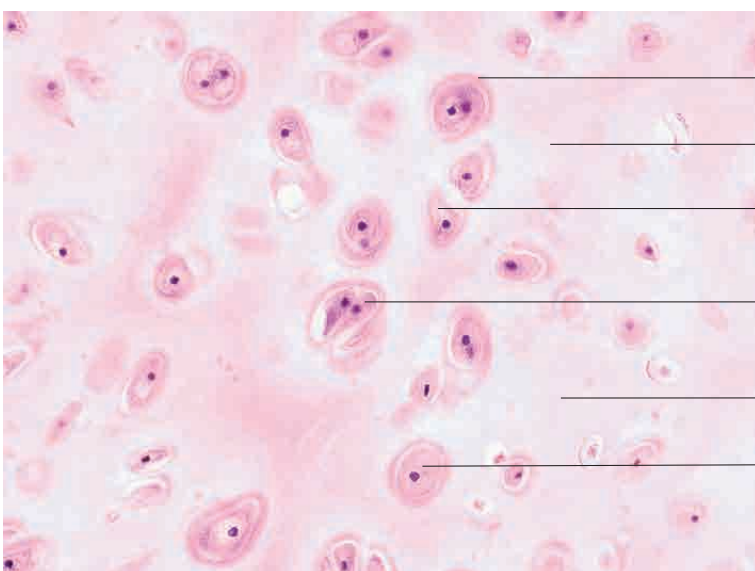
Interterritorial matrix

Isogenous cell group

Section through the capsule wall of a chondrocyte

Capsular matrix

Hyaline cartilage, embryonic tissue, foetal cat. Masson's trichrome stain; x250.



Capsular matrix

Interterritorial matrix

Lacuna

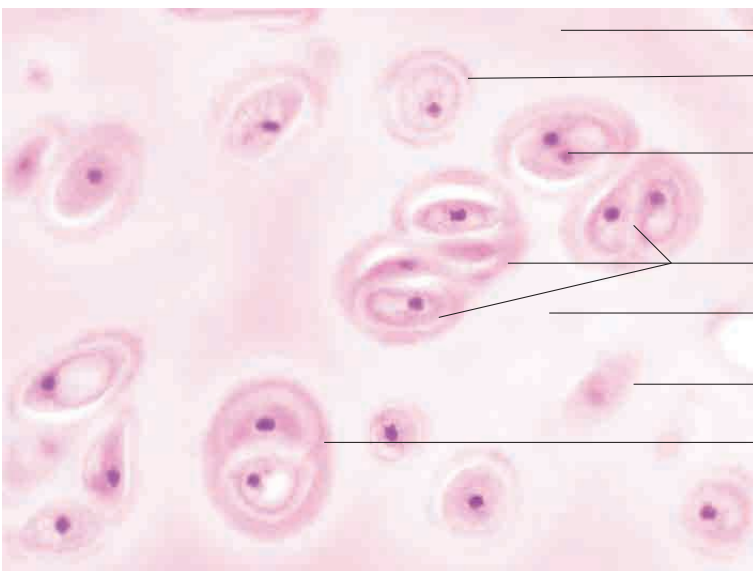
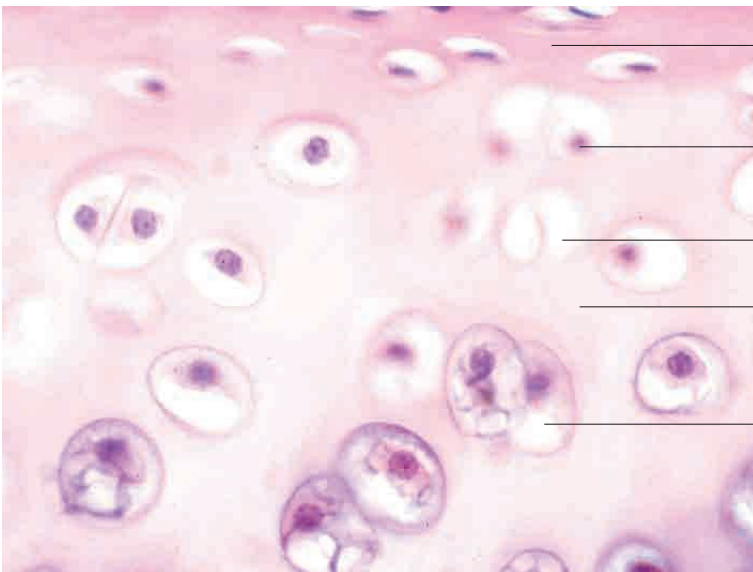
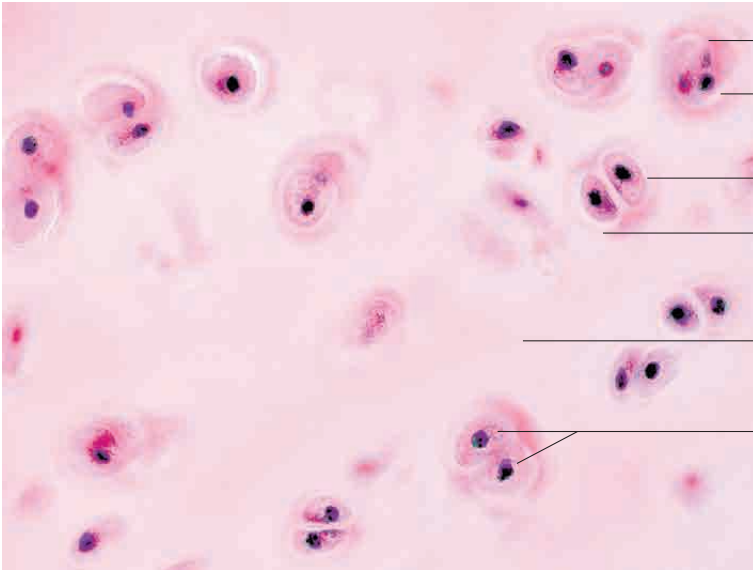
Isogenous cell group with capsular matrix and lacuna

Interterritorial matrix

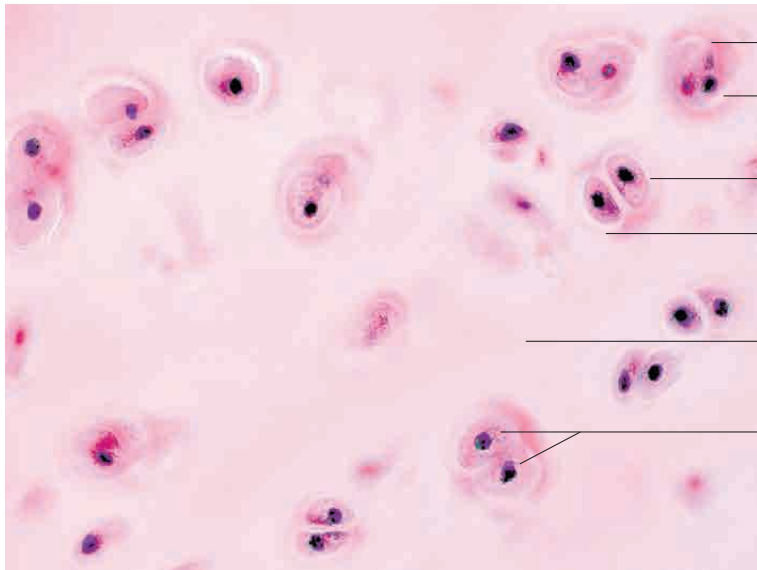
Nucleus of a chondrocyte with nucleolus

Hyaline cartilage, foetal ox. H.E. stain; x250.

3 Connective and supportive tissues

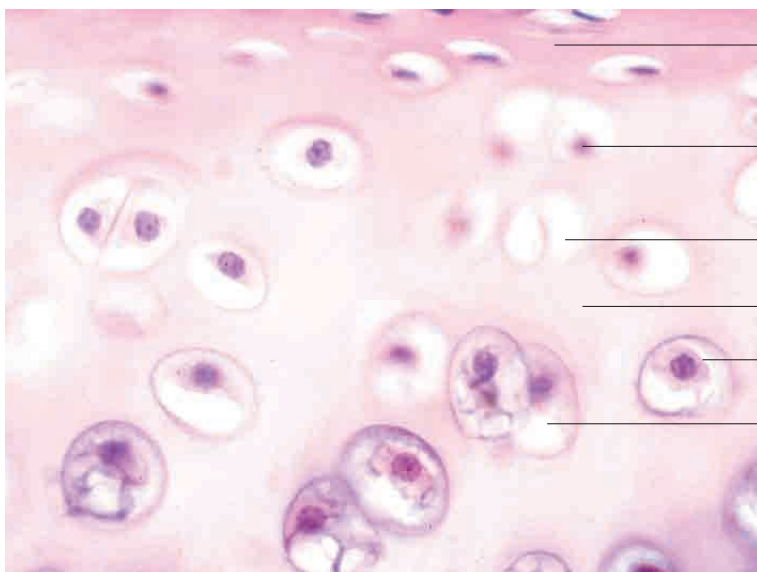


Hyaline cartilage



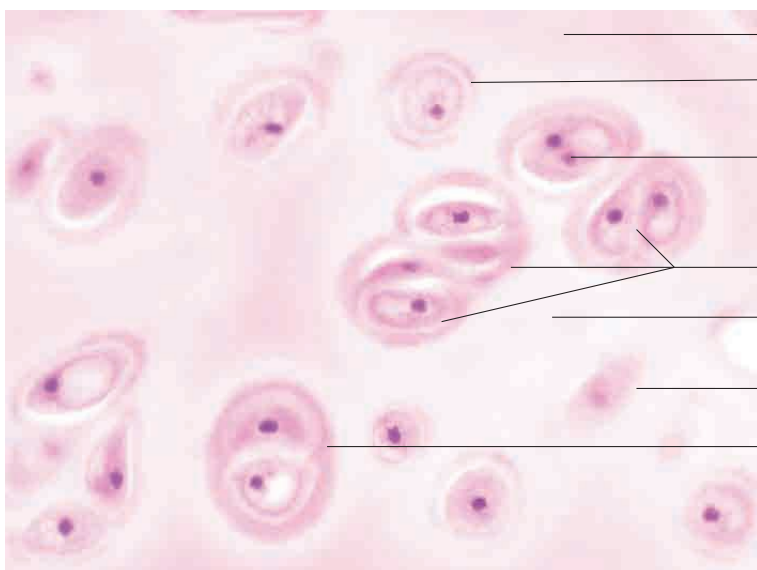
- Capsular matrix
- Lacuna
- Isogenous cell group with weakly stained capsular matrix
- Lacuna
- Interterritorial substance
- Nuclei of two chondrocytes with nucleoli in an isogenous cell group and common, strongly stained capsule

Hyaline cartilage, foetal ox. H.E. stain x250.



- Perichondrium composed of collagen cells and progenitor cells during chondrogenesis
- Nucleus of a chondrocyte
- Empty lacuna of an isogenous cell group (cellular components lost during staining)
- Interterritorial matrix
- Chondrocyte with nucleolus
- Lacuna

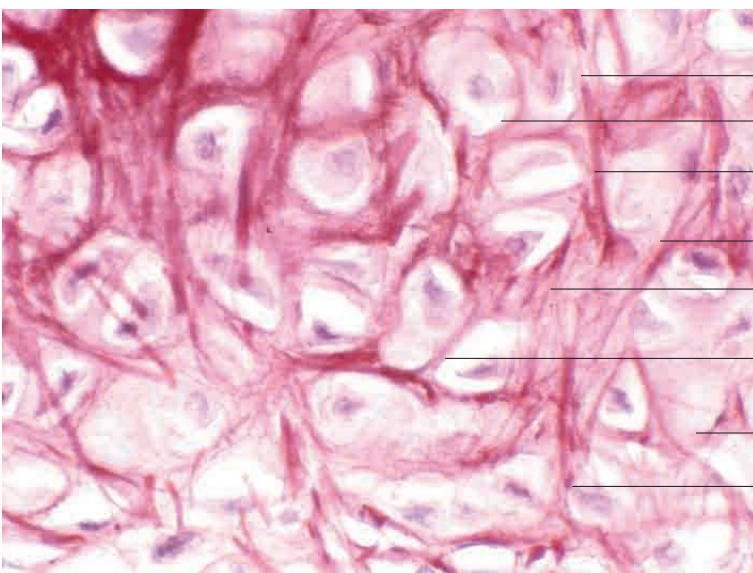
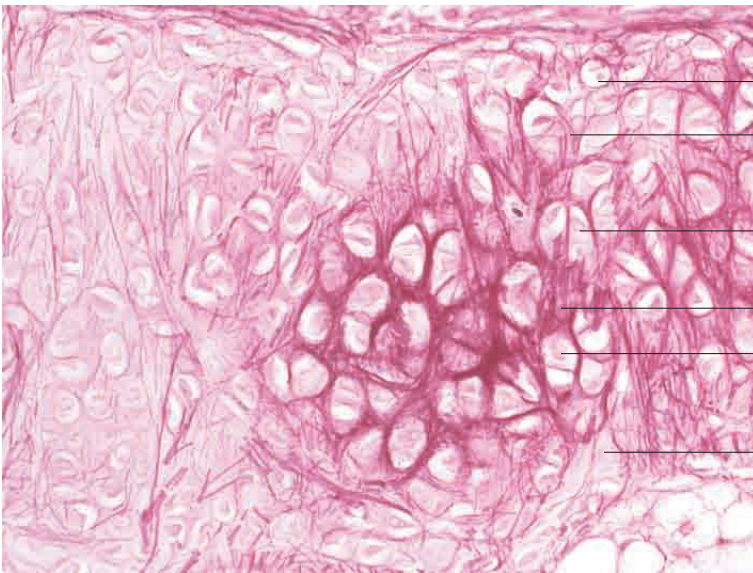
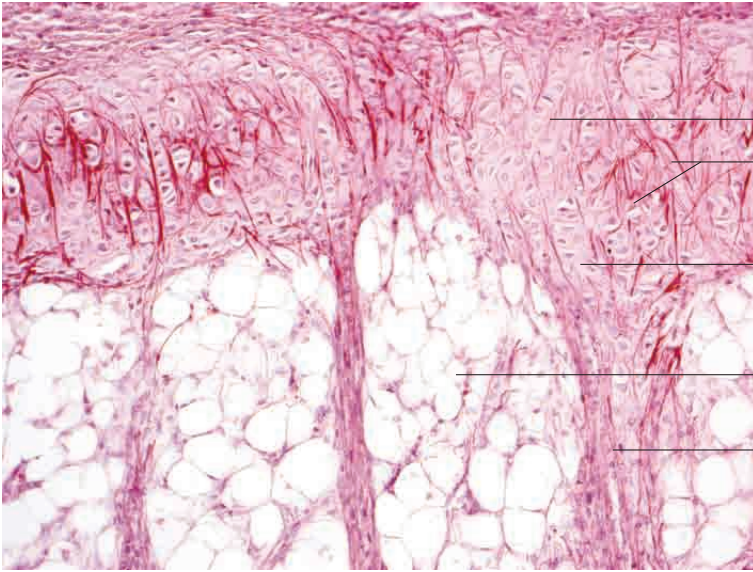
Hyaline cartilage, foetal ox. H.E. stain; x480.

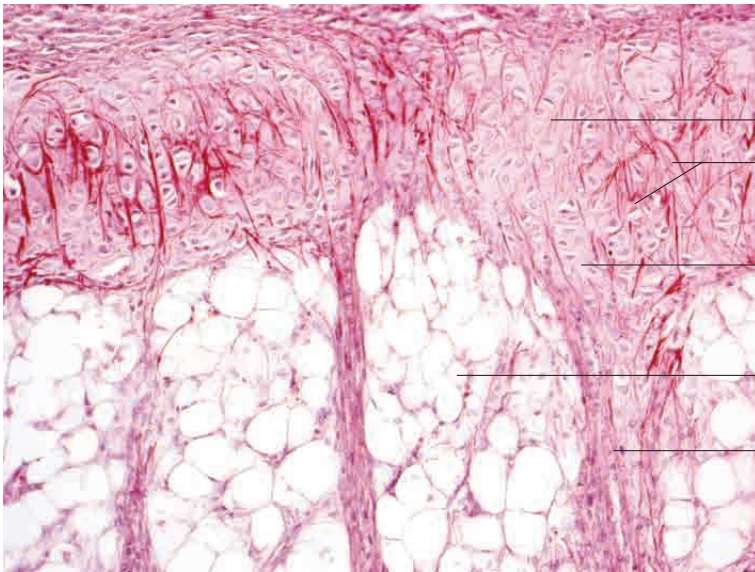


- Interterritorial matrix
- Capsular matrix
- Isogenous cell group
- Isogenous cell groups
- Interterritorial matrix
- Section through a cartilage capsule
- Isogenous cell groups with strongly staining capsular matrix

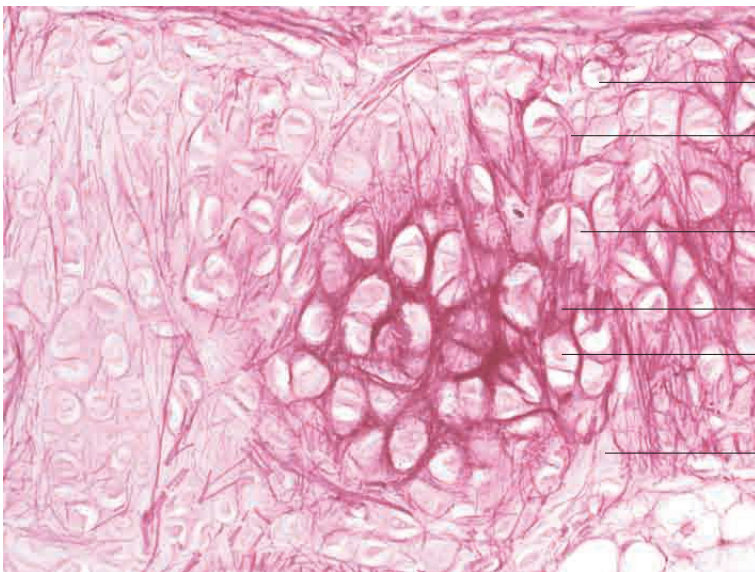
Hyaline cartilage, foetal ox. H.E. stain; x480.

3 Binde- und Stützgewebe

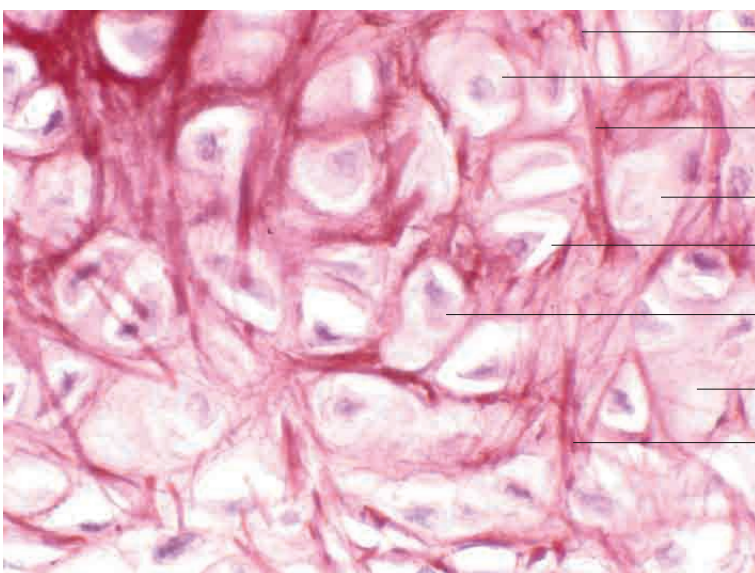




- Elastic cartilage
 - Elastic fibre network
 - Amorphous ground substance with diffusely distributed chondrocytes
 - Unilocular adipose tissue
 - Elastic fibre bundle embedded in unformed ground substance with chondrocytes
- Elastic cartilage, epiglottis, horse. Orcein haemalaun stain; x180.

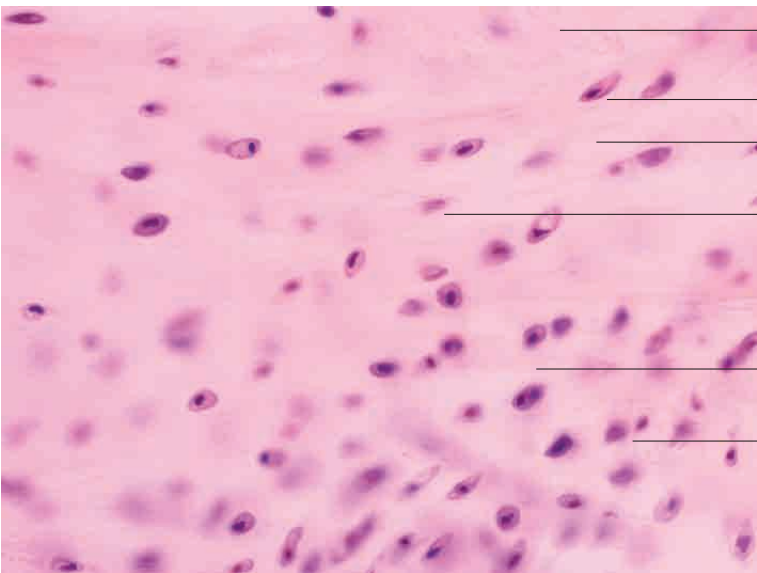
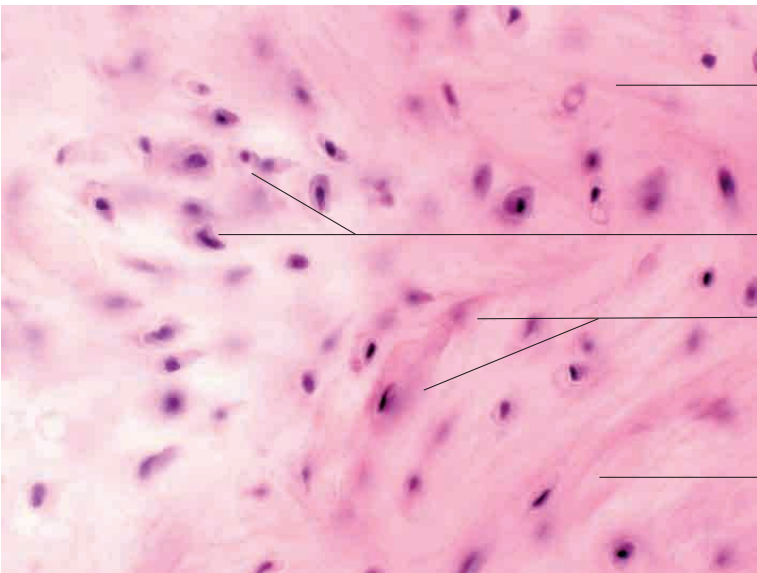
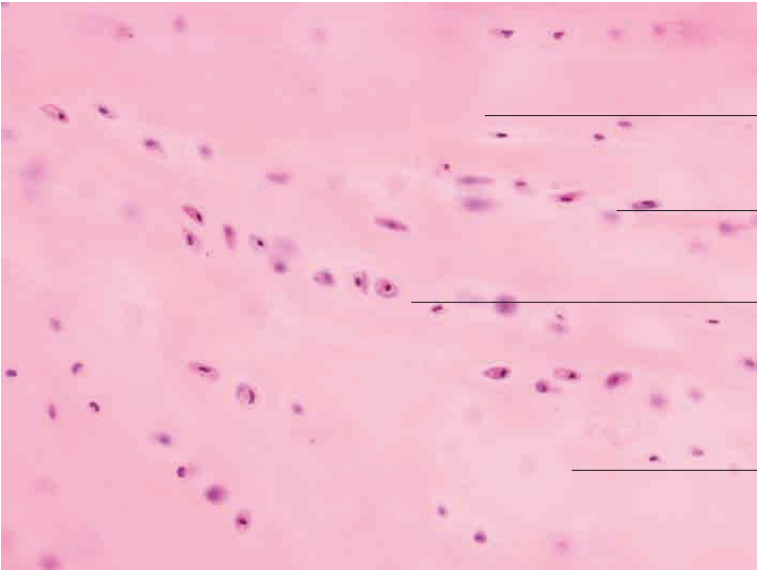


- Lacuna
 - Elastic fibre network
 - Cytoplasm of a chondrocyte (partial section)
 - Elastic fibre network
 - Nucleus of a chondrocyte
 - Amorphous ground substance
- Elastic cartilage, epiglottis, dog. Orcein haemalaun stain; x250.

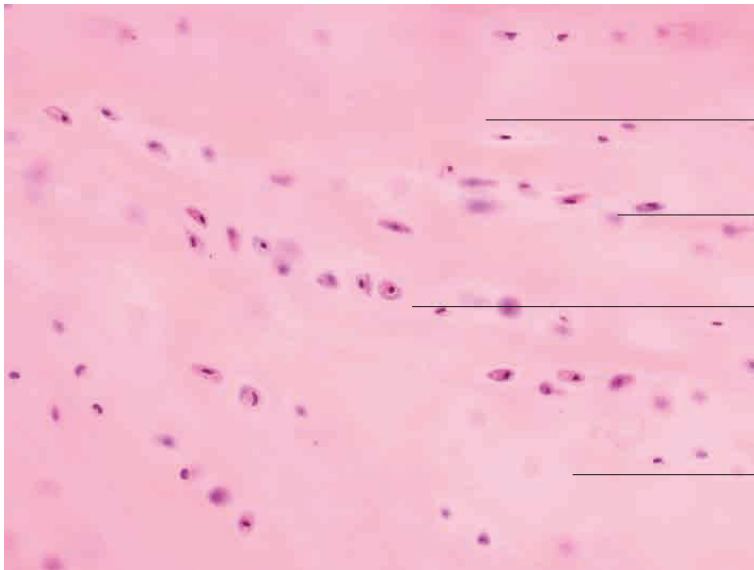


- Elastic fibre
 - Cytoplasm of a chondrocyte
 - Branching elastic fibres
 - Amorphous ground substance
 - Lacuna in cartilage
 - Chondrocyte
 - Amorphous ground substance
 - Branched elastic fibres
- Elastic cartilage, epiglottis, dog. Orcein haemalaun stain; x480.

3 Elastic and supportive tissues



Fibrocartilage



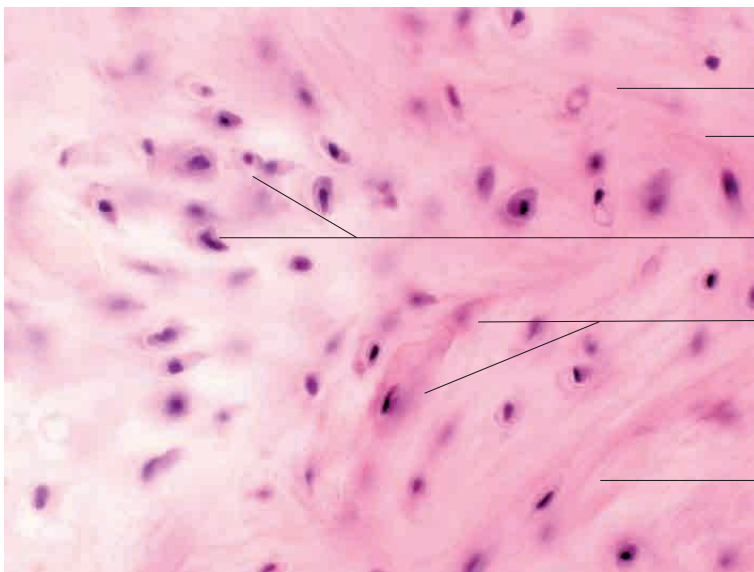
Collagen fibre bundle forming the structural framework of ground substance

Chondrocytes arranged in a row

Chondrocytes arranged in a row

Amorphous ground substance

Fibrocartilage, meniscus, dog. H.E. stain; x 180.



Amorphous ground substance

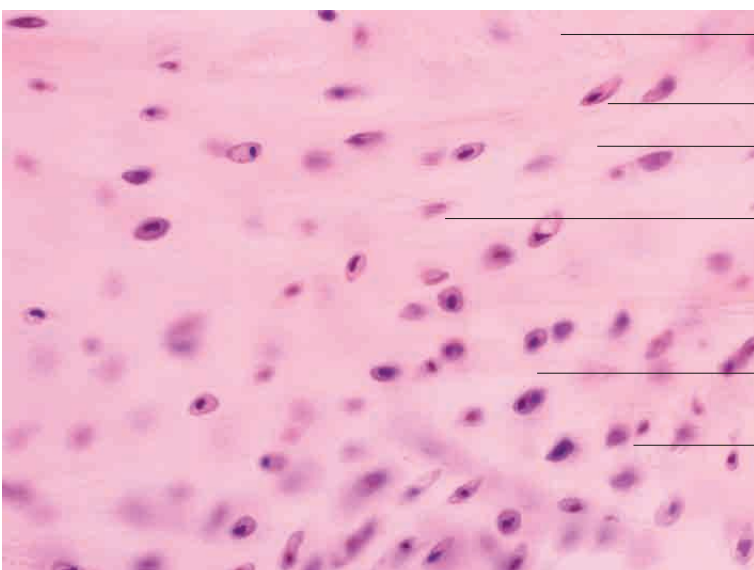
Collagen fibre bundle forming the structural framework of ground substance

Islands of individual chondrocytes localised between collagen fibres aligned along lines of tension and pressure

Collagen fibre bundle forming the structural framework of ground substance with embedded chondrocytes

Collagen fibre bundle

Fibrocartilage, meniscus, pig. H.E. stain; x300.



Amorphous ground substance

Individual chondrocytes

Poorly developed collagen fibre bundles

Partial section of chondrocyte

Amorphous ground substance

Isogenous cell group

Fibrocartilage, meniscus, calf. H.E. stain; x300.