

Connective Tissue

Answer Choices(In **CAPITAL BOLD**):

Proper:

Specialized:

Loose-

AREOLAR

ADIPOSE

RETICULAR

Cartilage-

HYALINE

FIBROCARILAGE

ELASTIC

Dense-

REGULAR

IRREGULAR

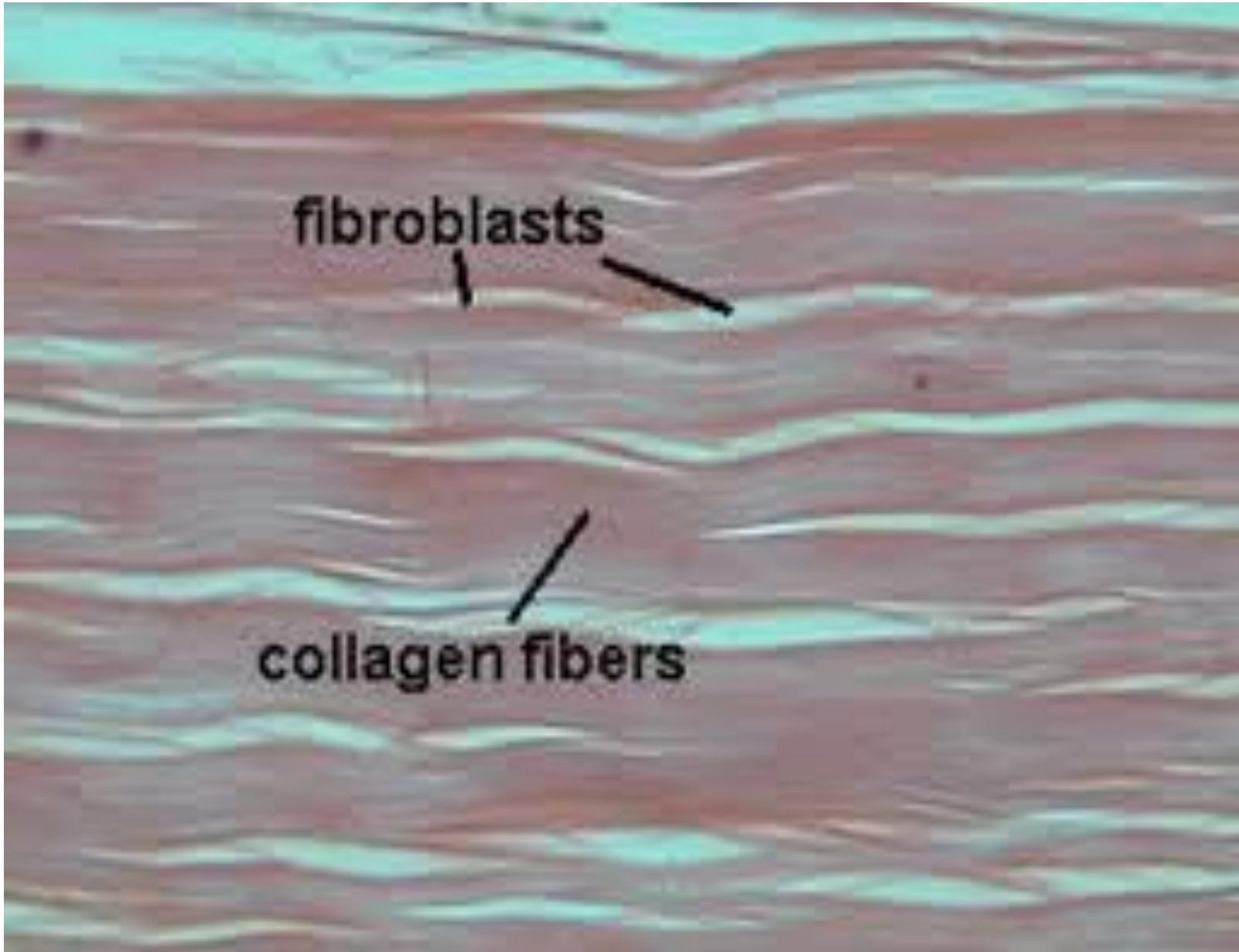
ELASTIC

Bone-

COMPACT BONE

Spongy bone

BLOOD



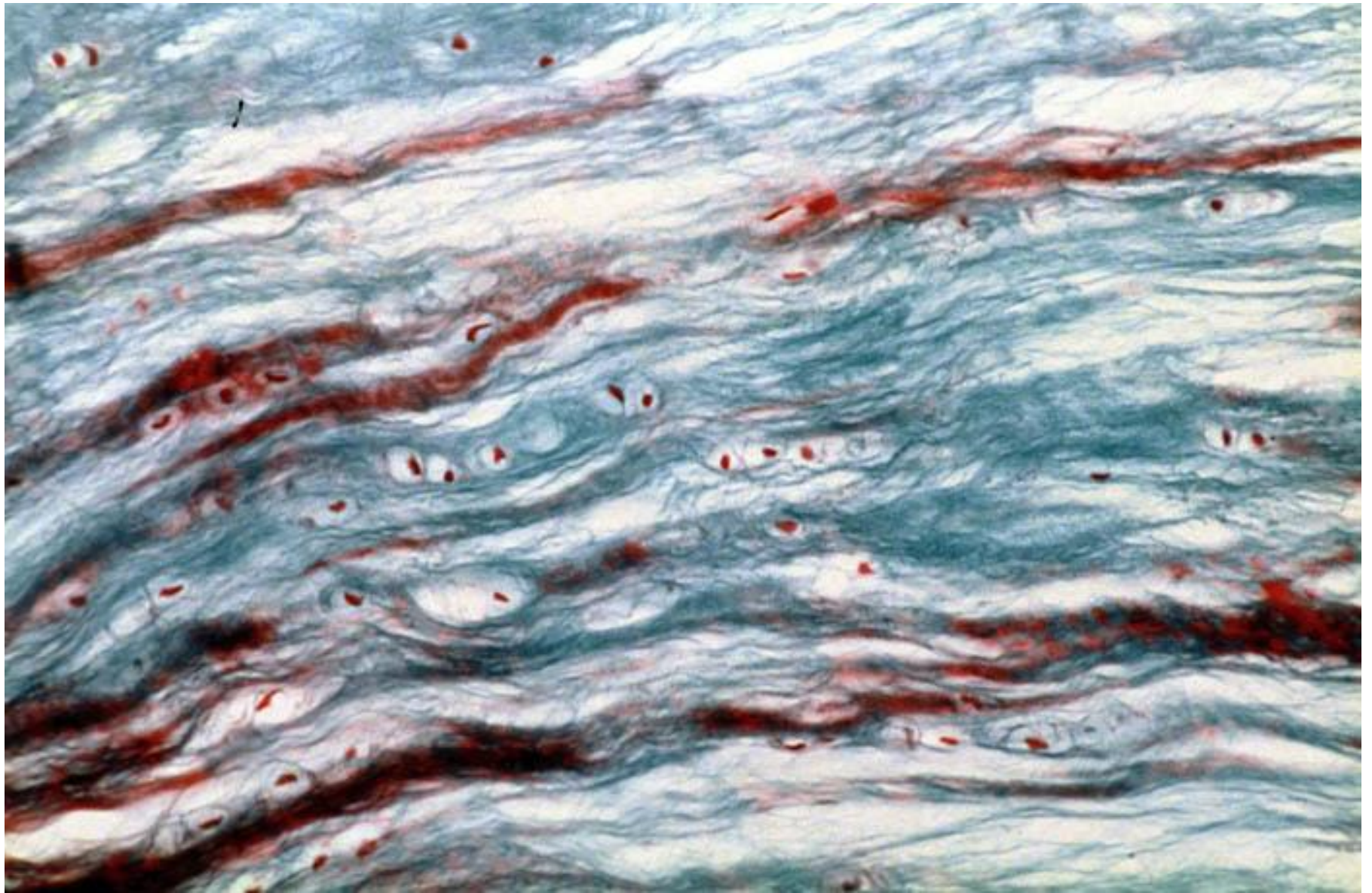
fibroblasts

collagen fibers

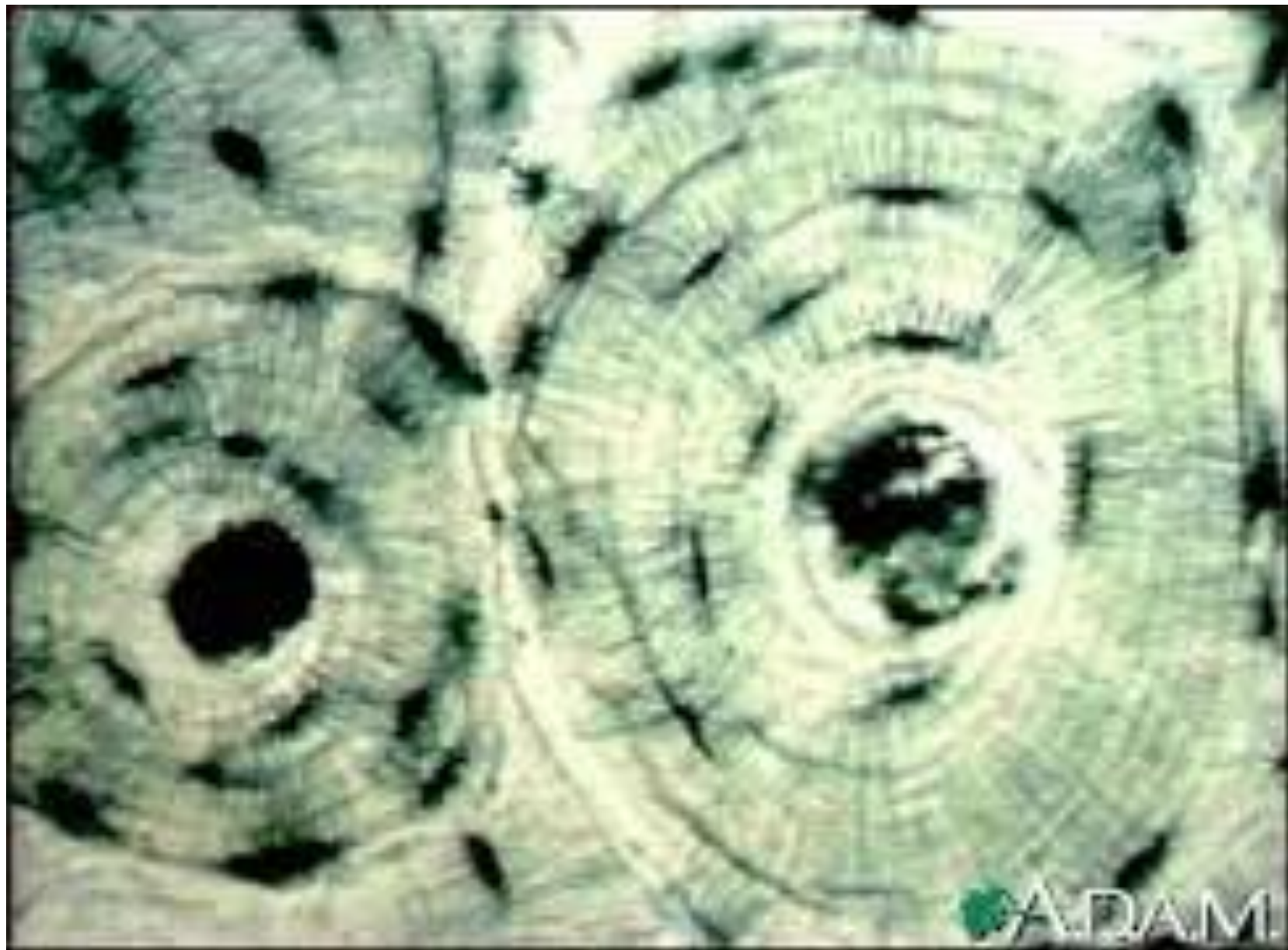
- Answer:
 - Dense Regular

Description: Tightly compact collagen (thick fibers) that are slightly wavy

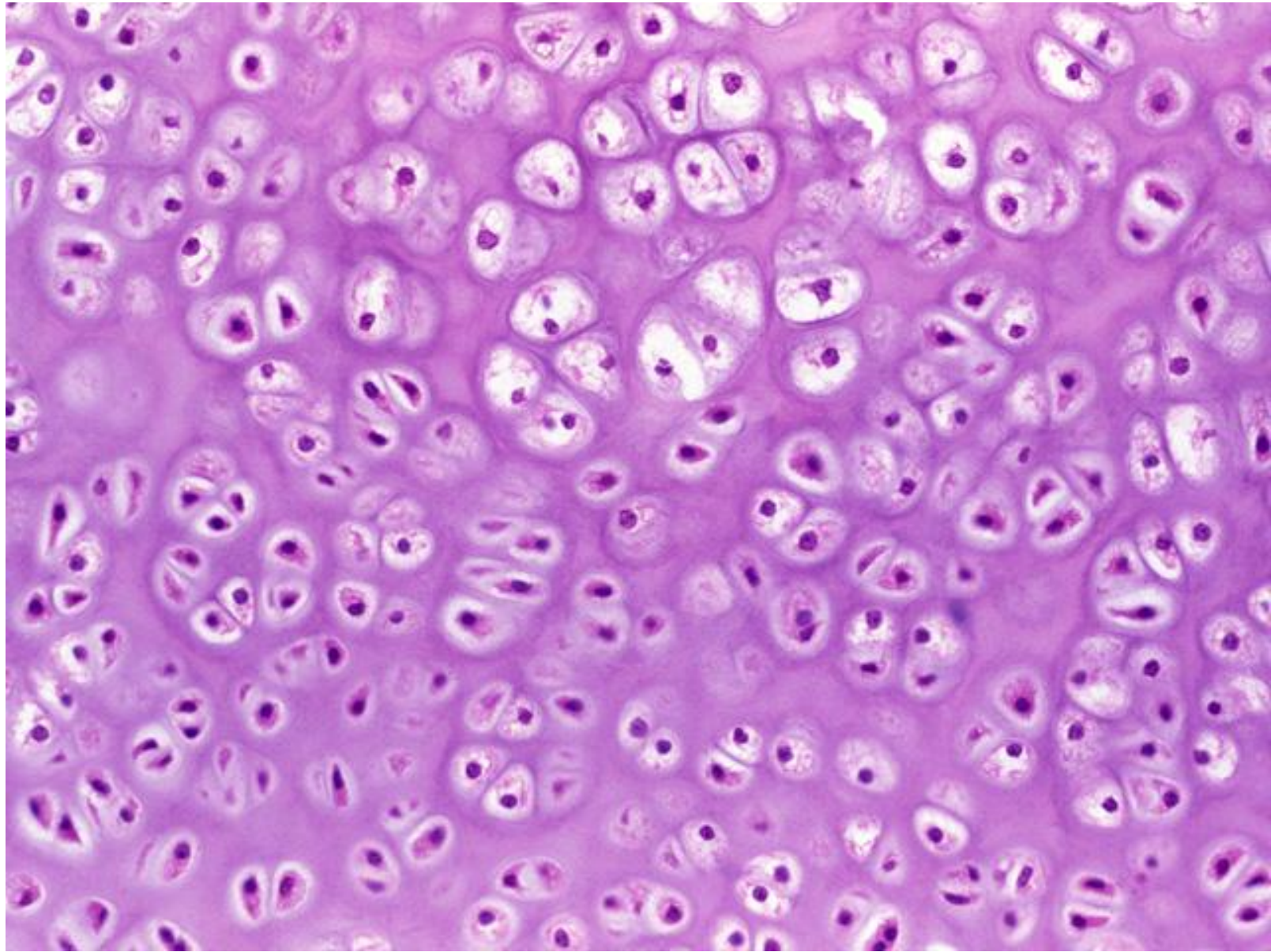
Location: tendons and ligaments



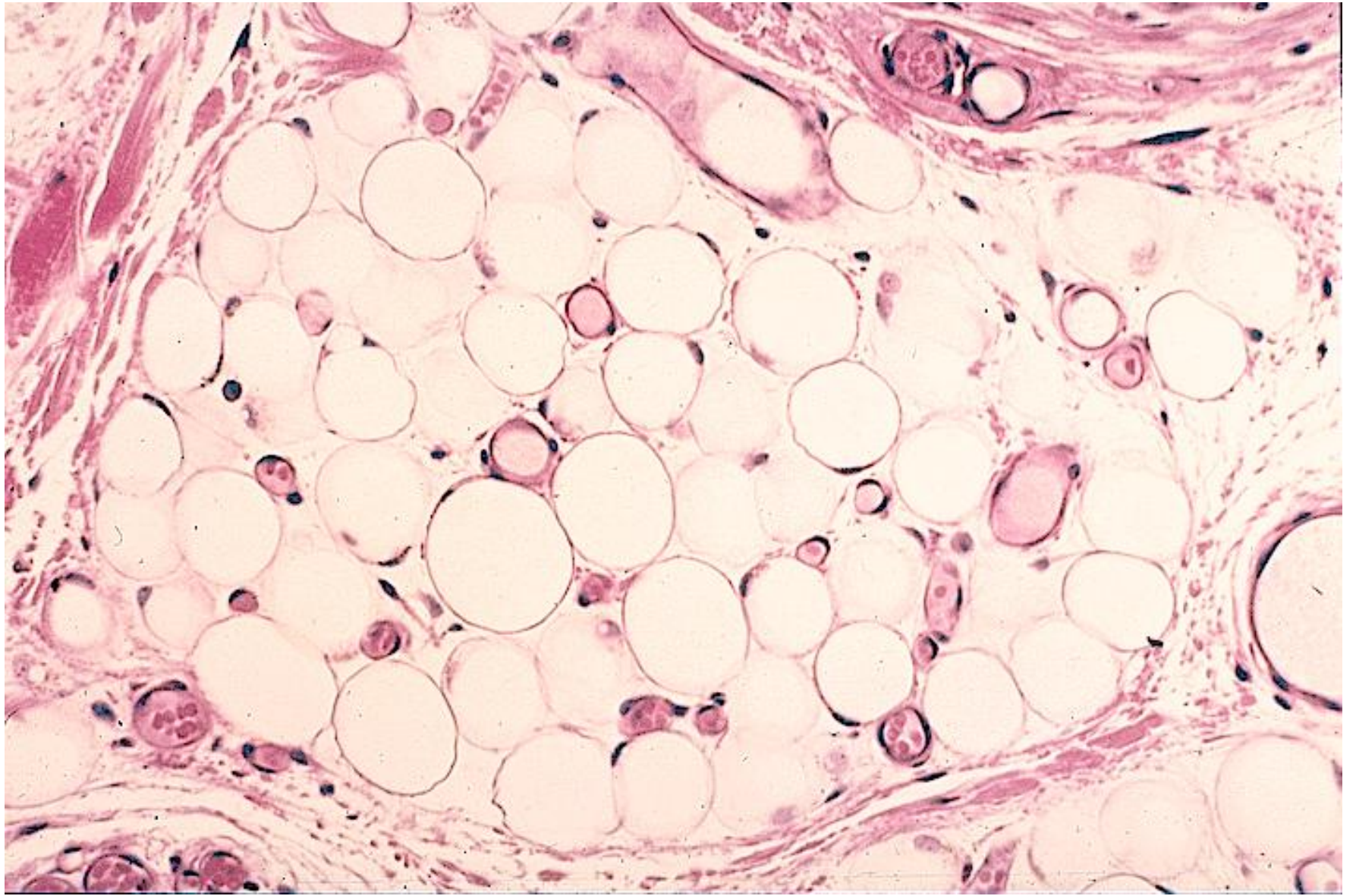
- Answer:
 - Cartilage: Fibrocartilage
 - Description: Eyeball looking cells (chondrocytes) found scattered throughout collagen fibers
 - Location: between vertebrae, knees, and pelvic girdle



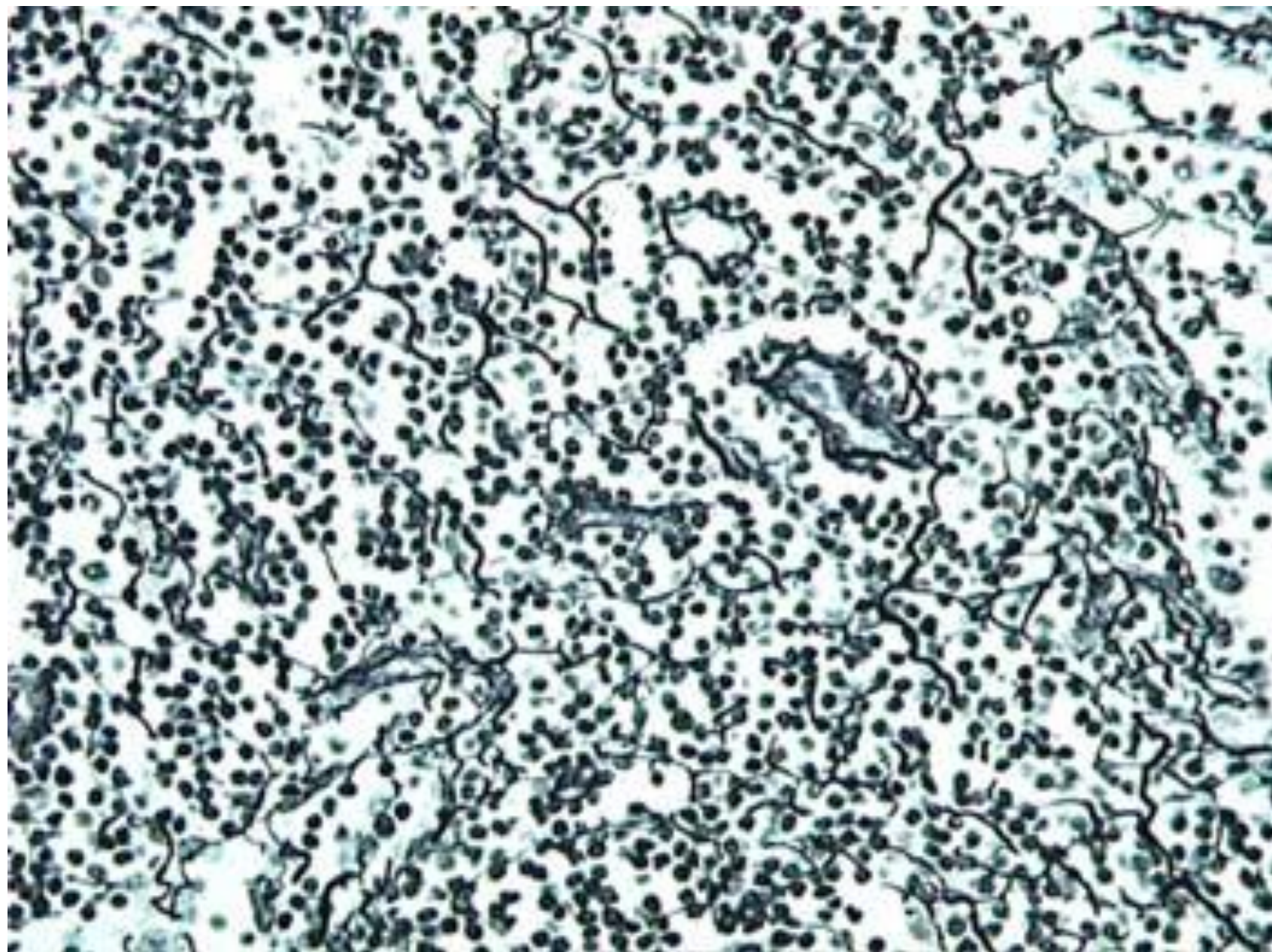
- Answer:
 - Bone: Compact Bone
 - Description: Looks like tree rings (osteocytes (mature bone cells) that form concentric circles
 - Location: External layer of all bones and bulk of the shaft of long bones



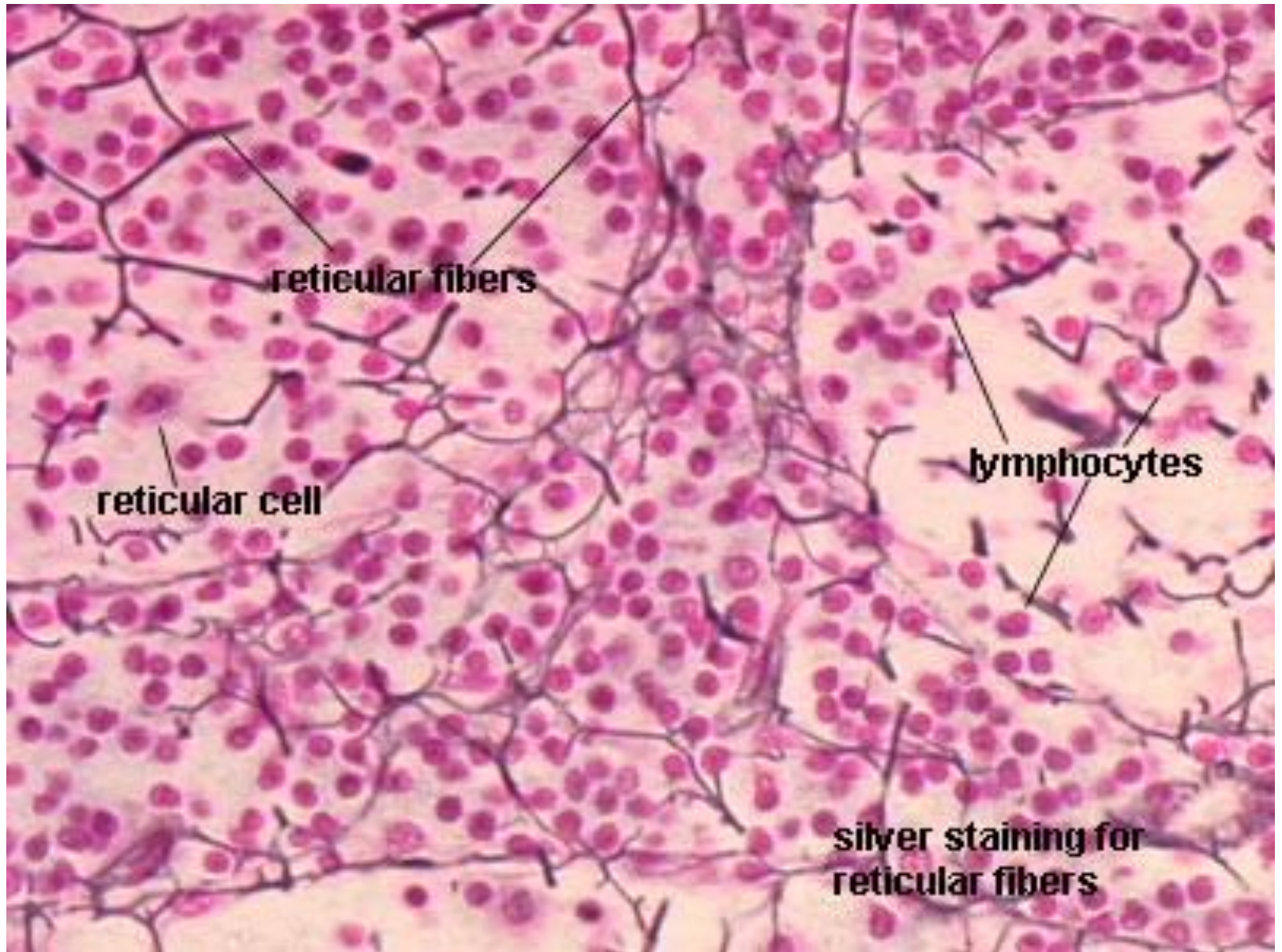
- Answer:
 - Cartilage: Hyaline
 - Description: Chondrocytes (eyeball looking cells) not found within fibers
 - Location: Ends of bones (helps to keep articulations smooth; at the joints)



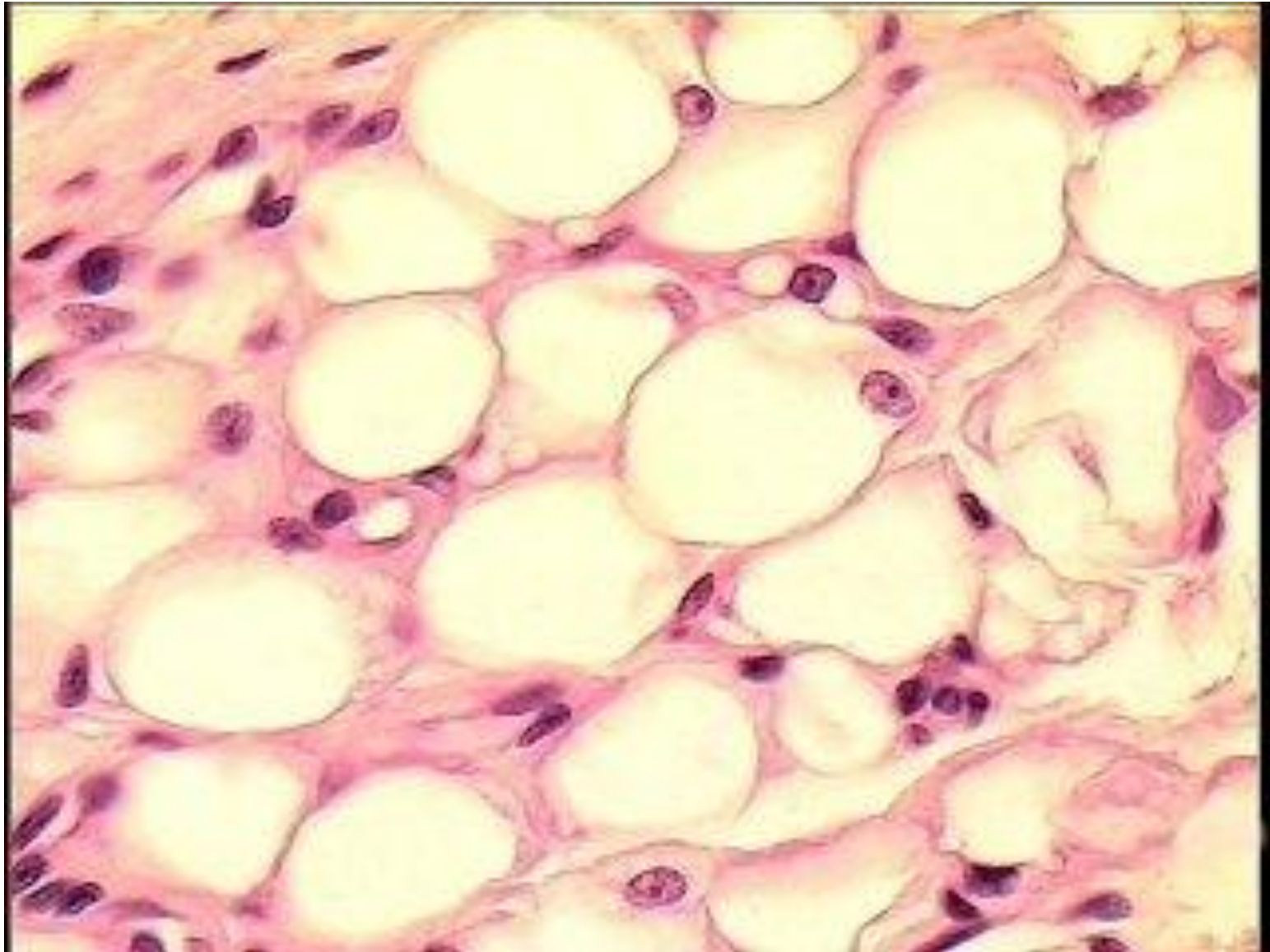
- Answer:
 - Loose: Adipose
 - Description: Big empty circles (the fat cells) that are pushing against other cells and fibers
 - Location: Invasion of areolar tissue (underlying epithelial cells)



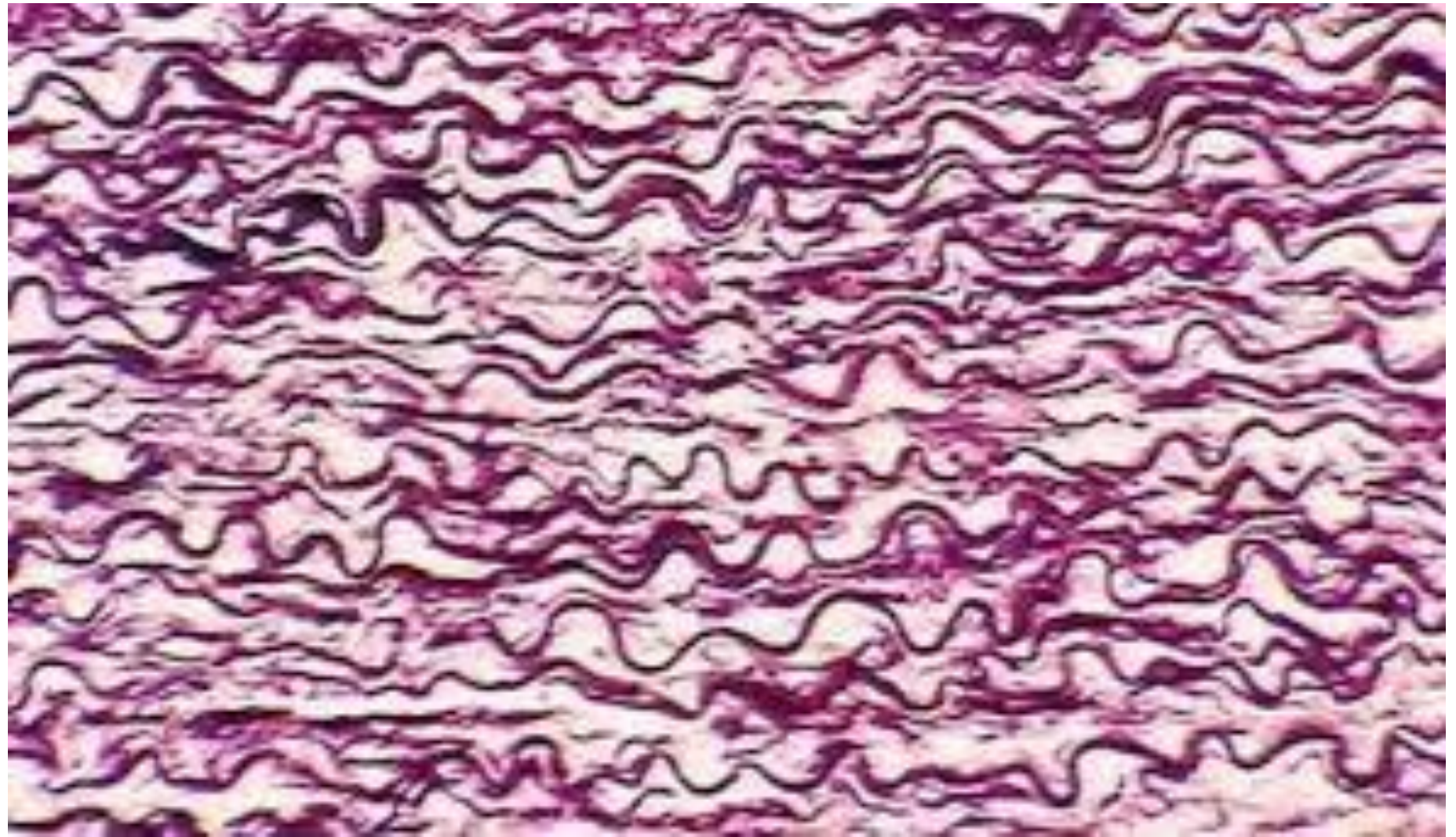
- Answer:
 - Loose: Reticular
 - Description: Loosely woven fibers (net appearance) with lymphocytes and other cells (the dots) scattered throughout
 - Location: framework that supports organs such as liver and spleen



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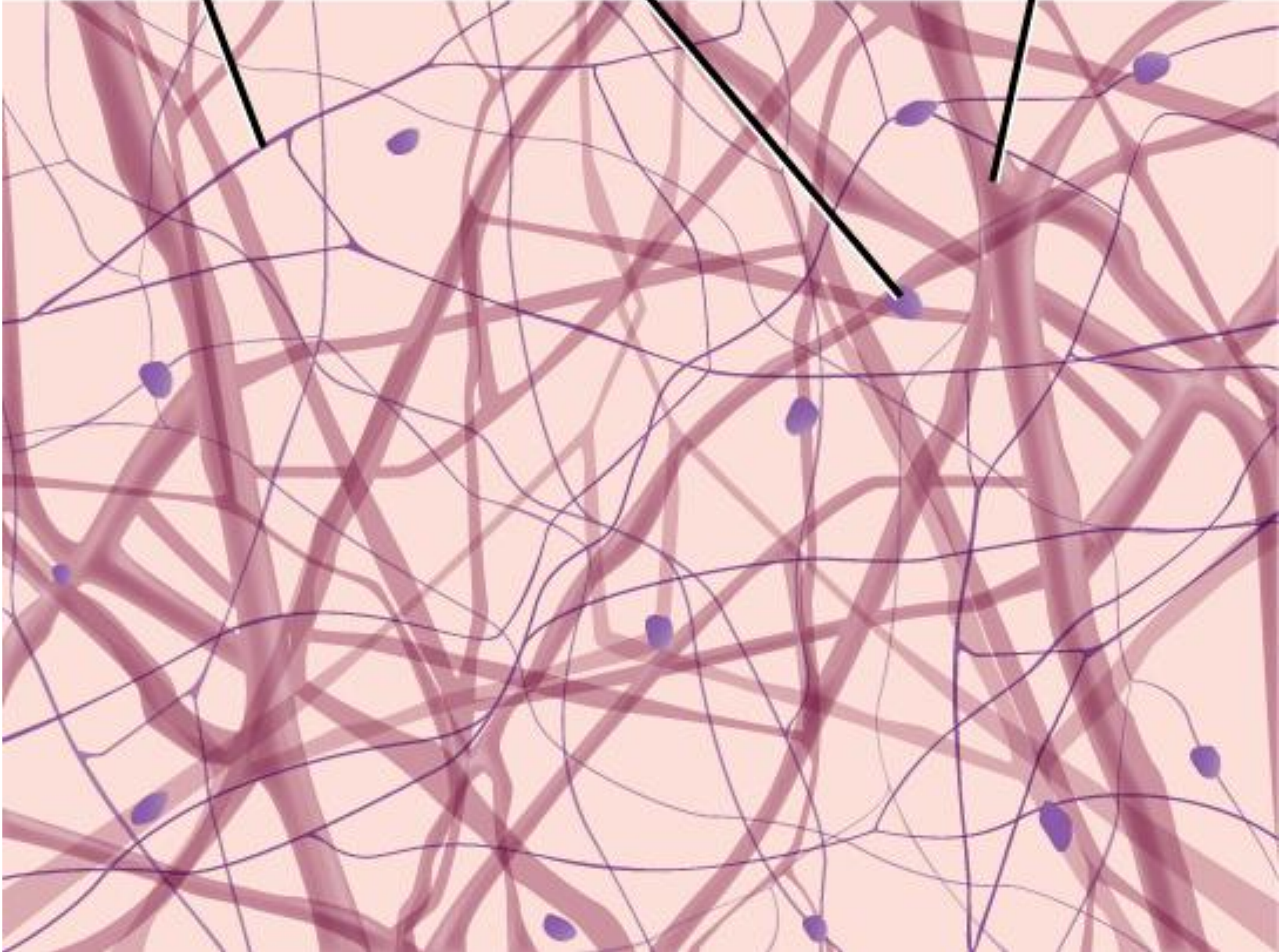


- Answer:
 - Dense: Elastic
 - Description: Very thick Elastin fibers and highly wavy appearance so to stretch and recoil
 - Location: Walls of arteries, penis, lung tissue, spinal column

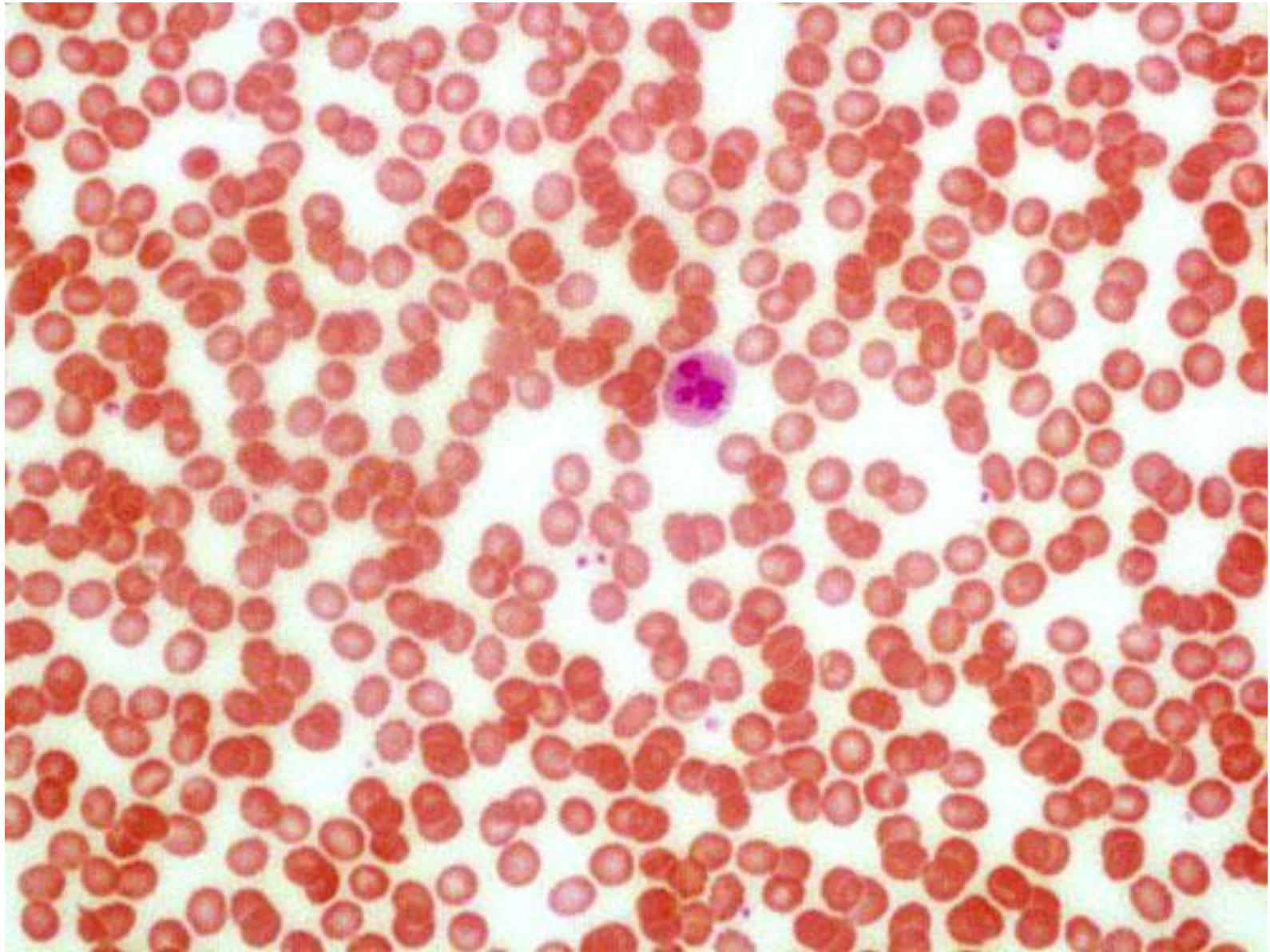
Elastin fiber

Fibroblasts

Collagen fiber



- Answer:
 - Loose: Areolar
 - Description: All three fibers (collagen, elastin, and reticular –*thickest to thinnest*) that are loosely woven with cells such as fibroblasts scattered throughout
 - Location: Underlying epithelial tissue (packing material)

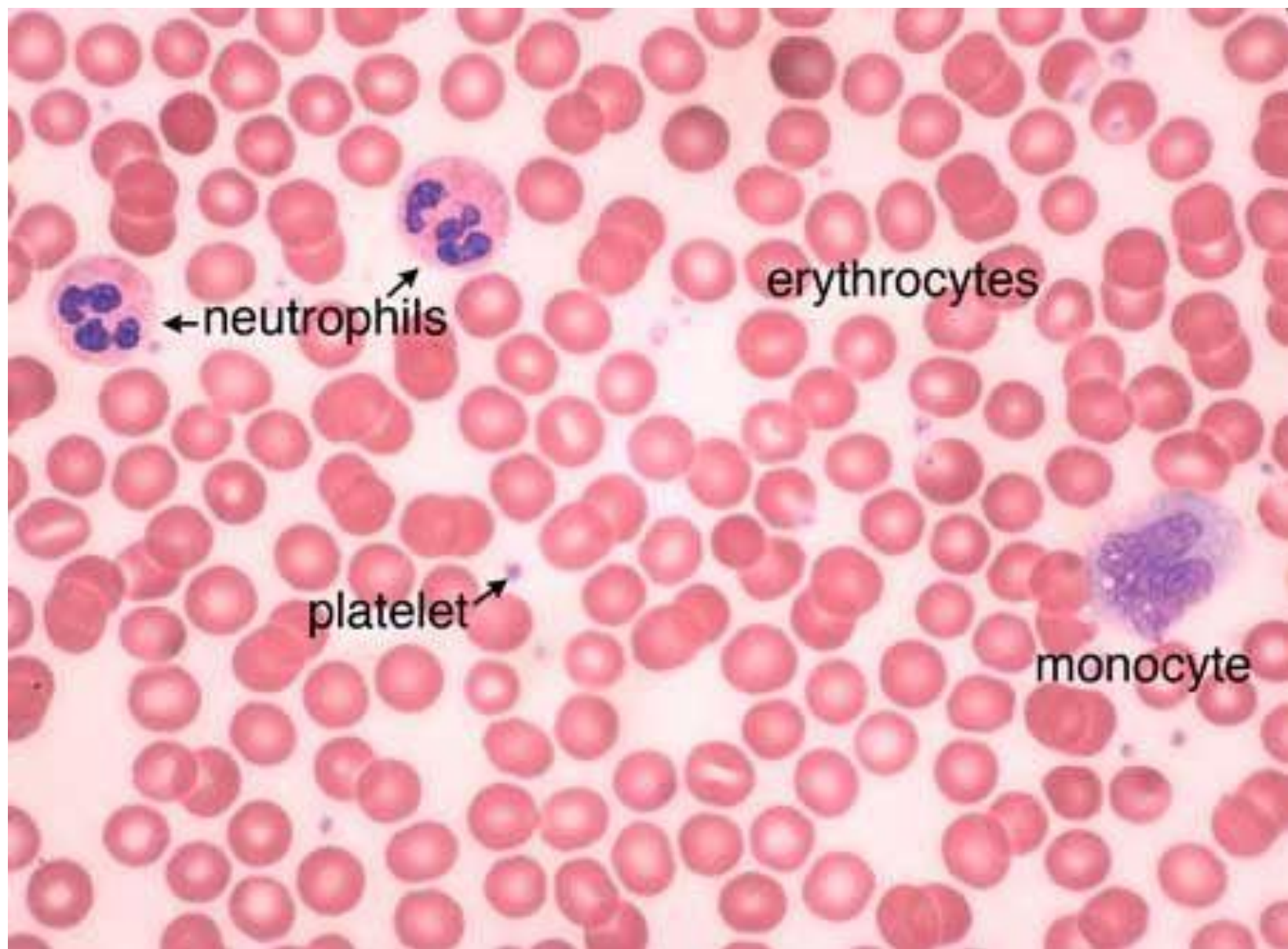


- Answer:

- Blood

- Description: Contains red and white blood cells, platelets, hormones, nutrients, suspended in a plasma

- Location: Blood vessels (arteries, veins, and capillaries)



erythrocytes

← neutrophils

platelet

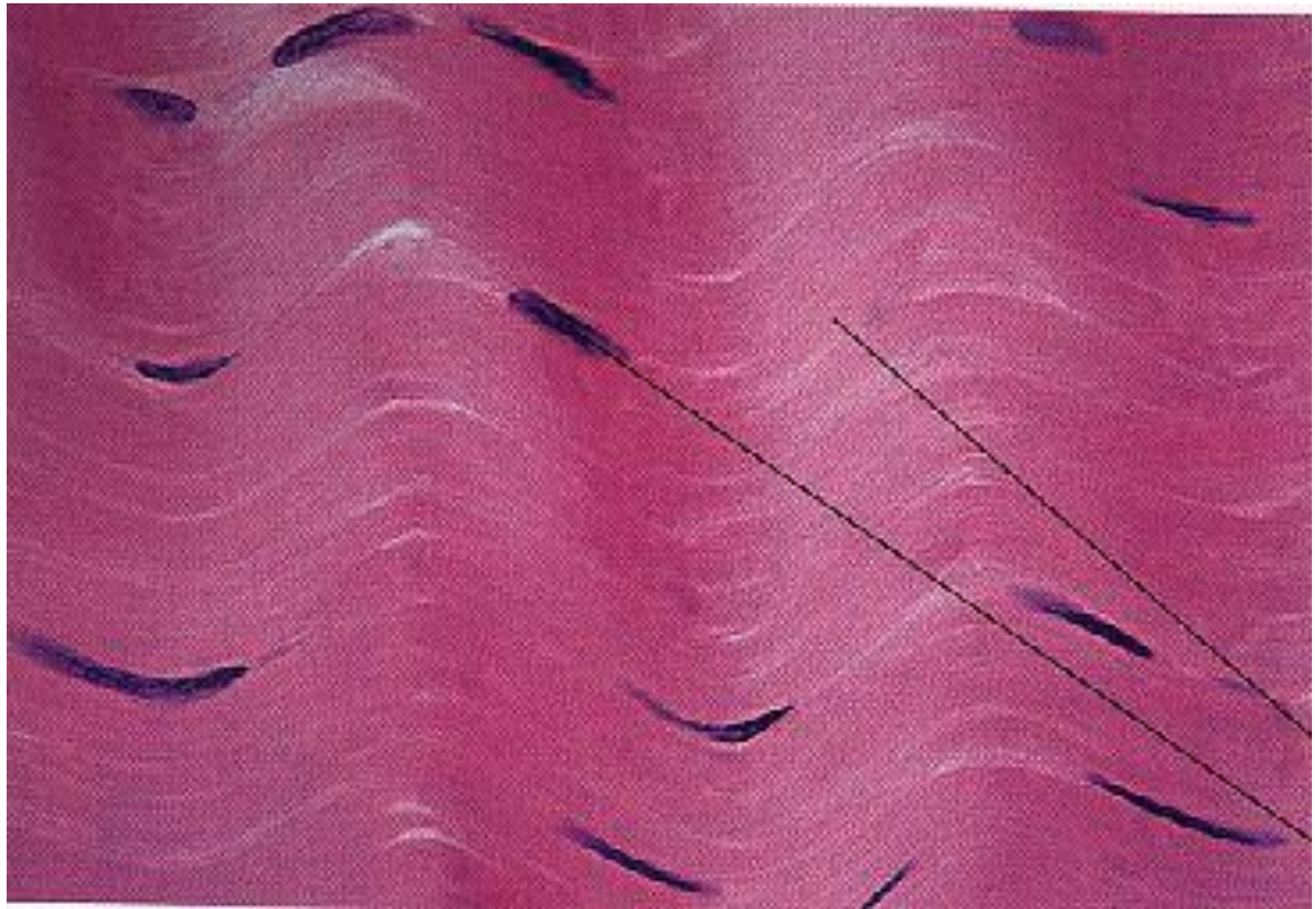
monocyte

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 - Dense: Regular

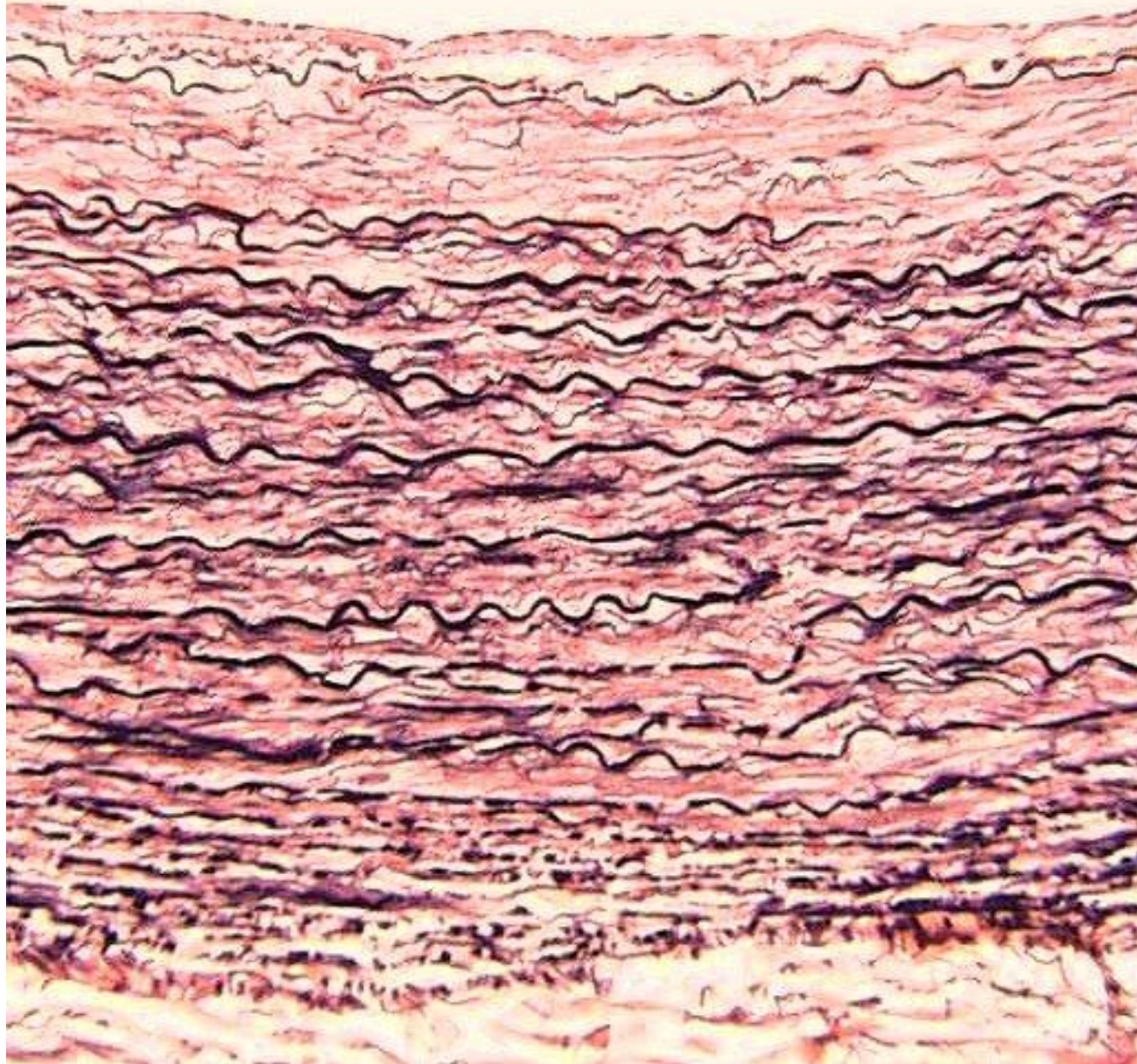
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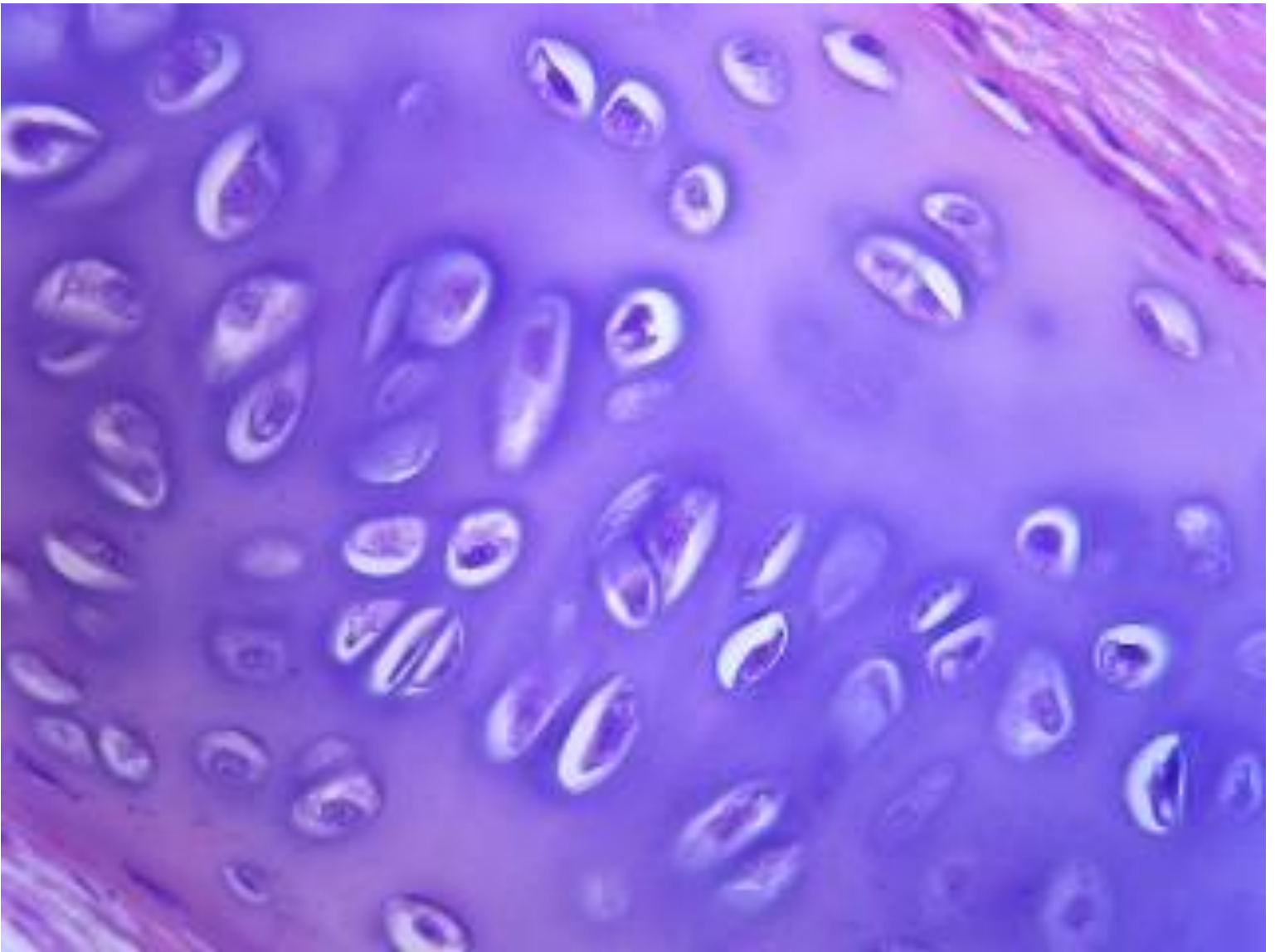


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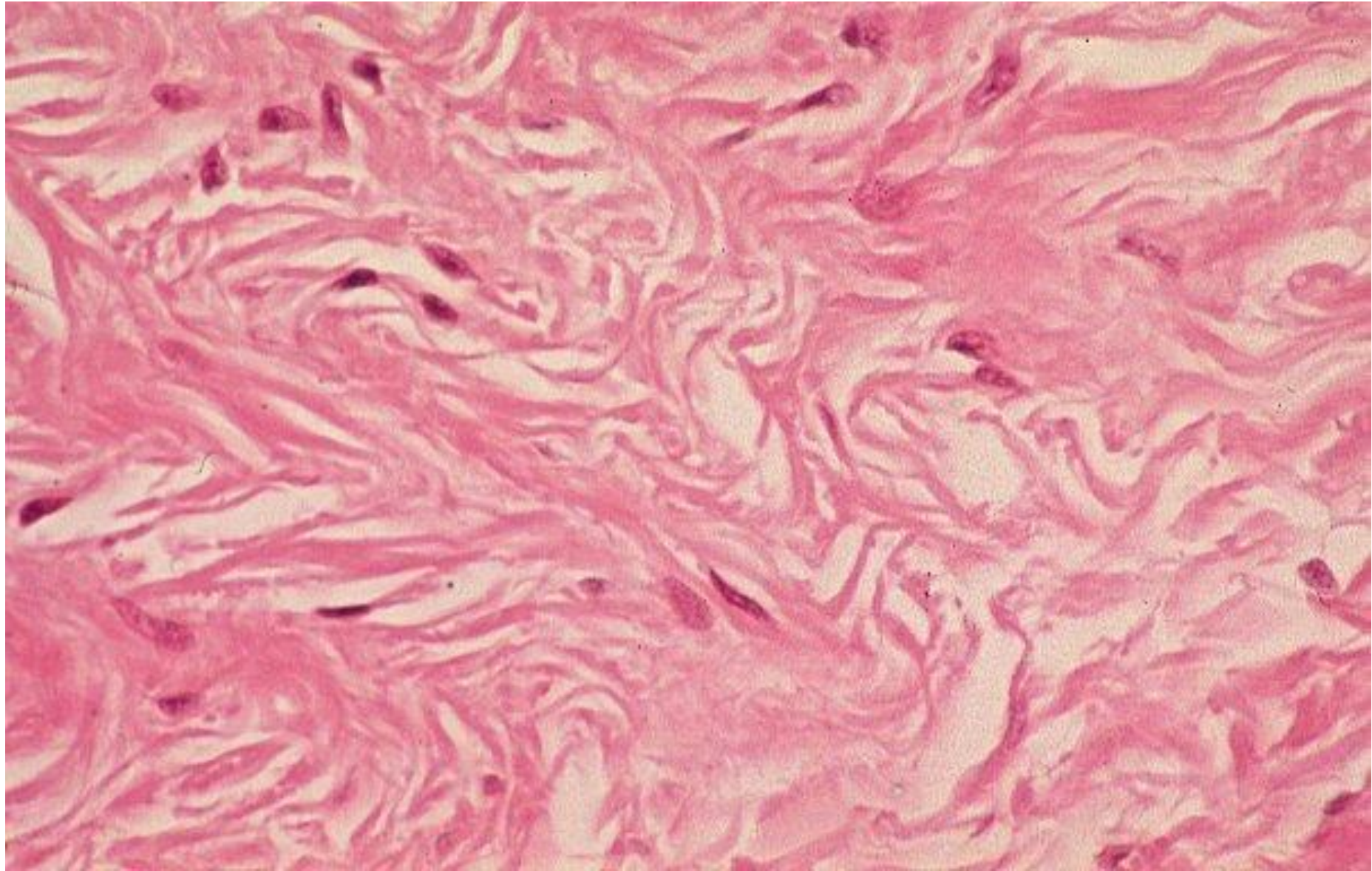
BLACK = elastica **RED = collagen and smooth muscle**



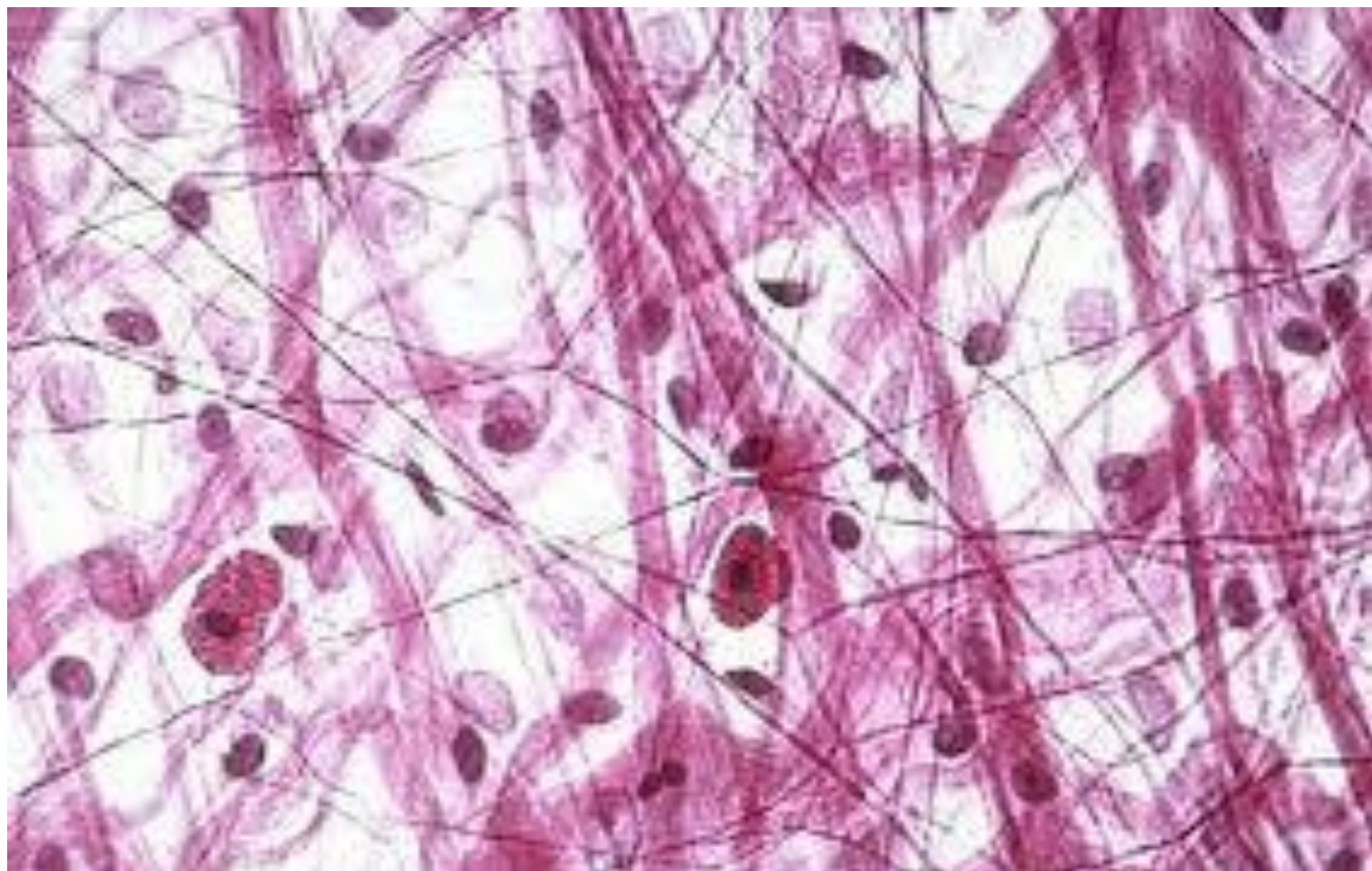
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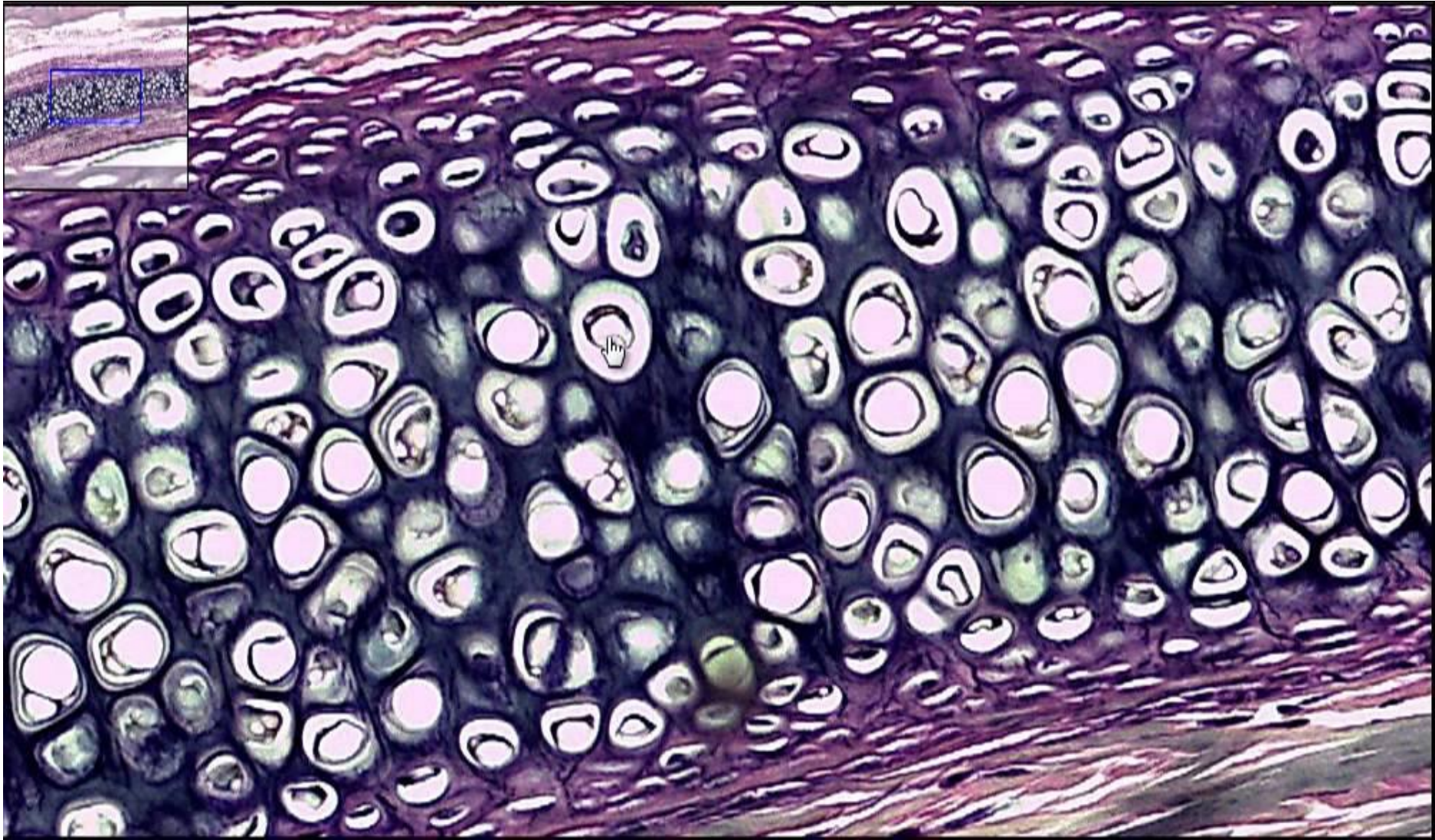
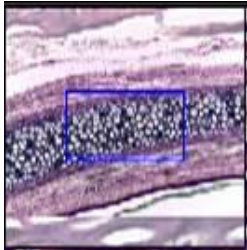
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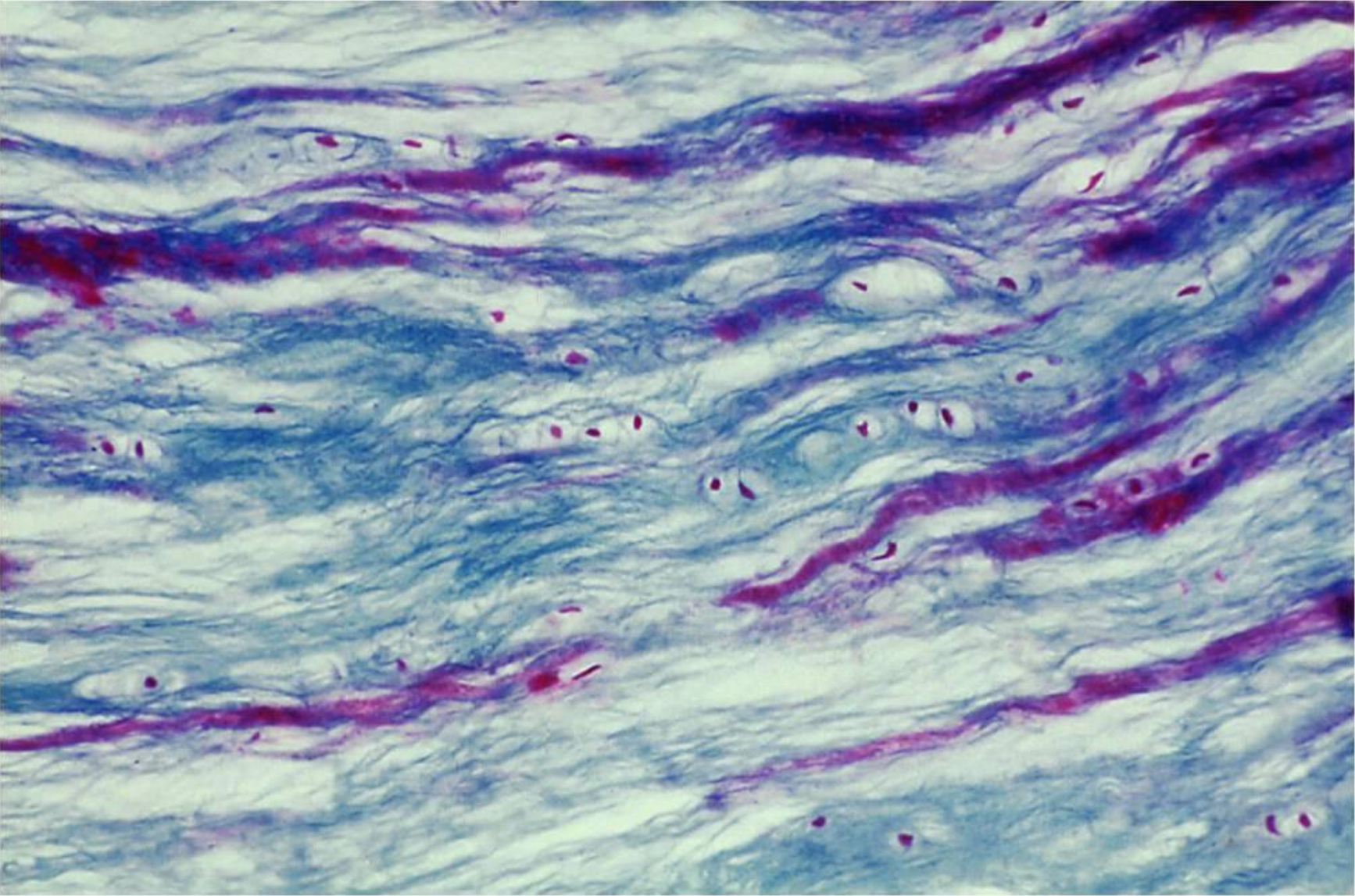
- Answer:
 - Dense: Irregular
 - Description: same fibers as dense tissue (collagen) but move in multiple directions
 - Location: skin, digestive tract, heart valves



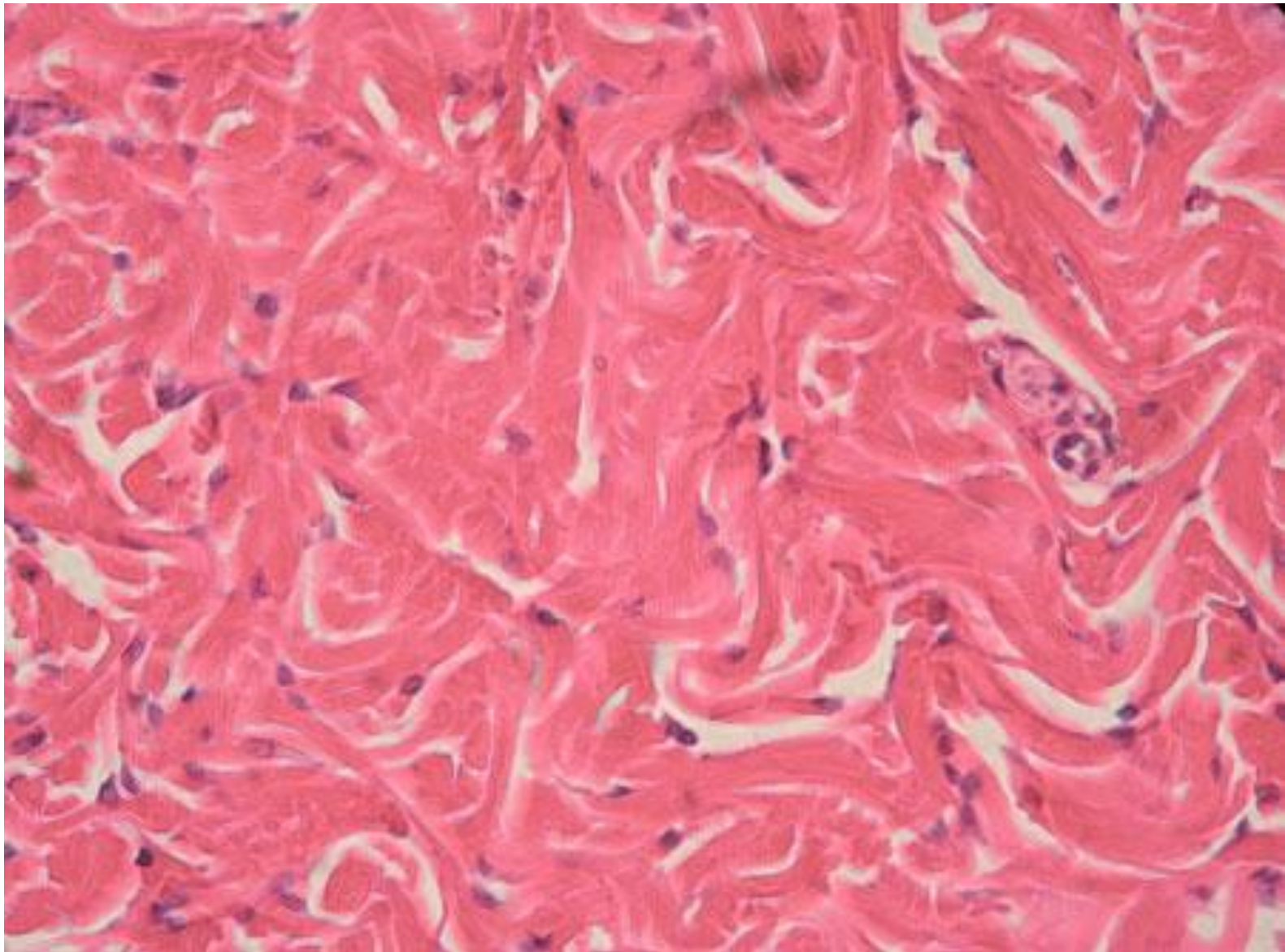
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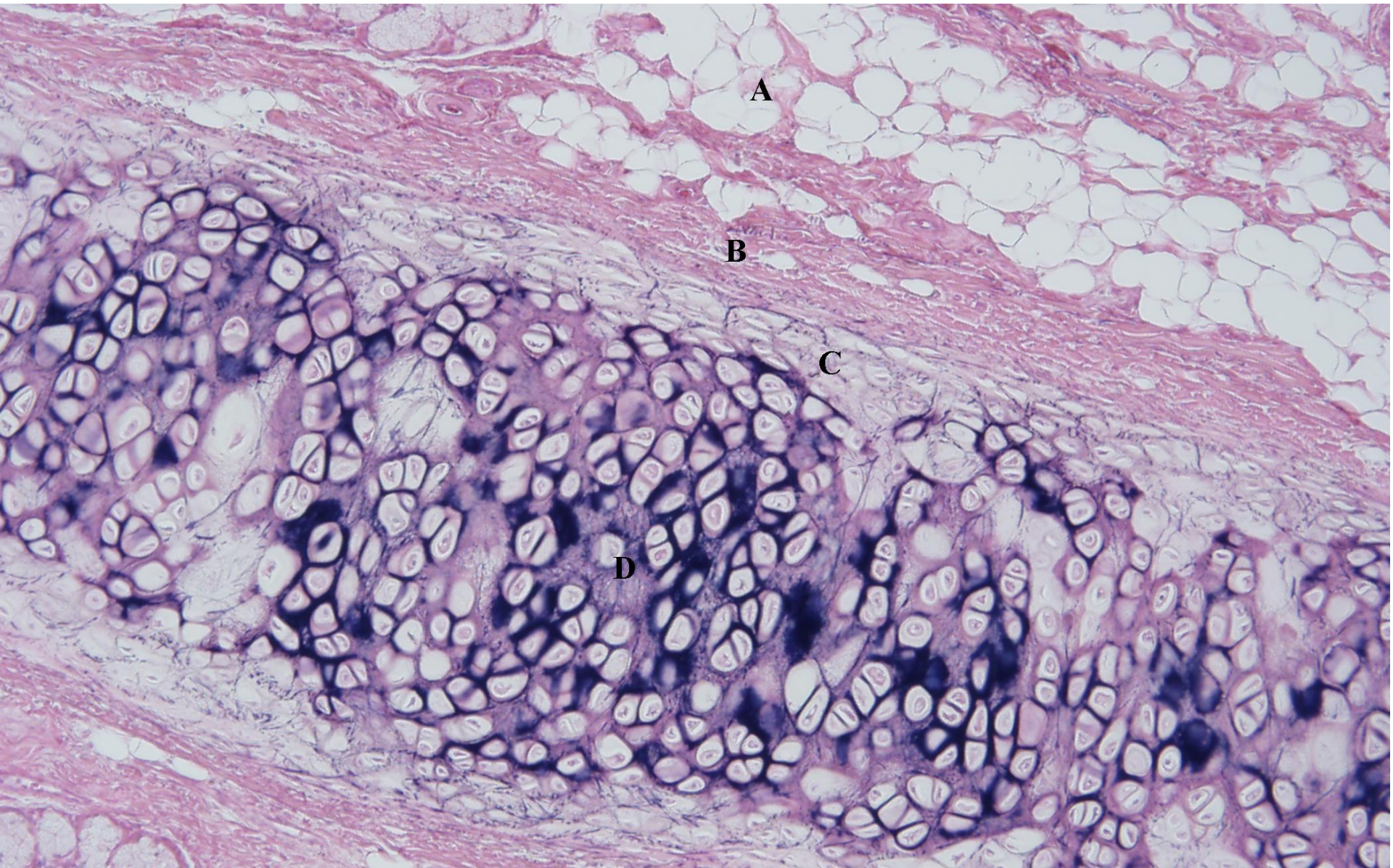
- Answer:
 - Cartilage: Elastic
 - Description: Chondrocytes (eyeball looking cells) very close together surrounded by elastic fibers (thick and very wavy)
 - Location: external ears and parts of larynx)



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