

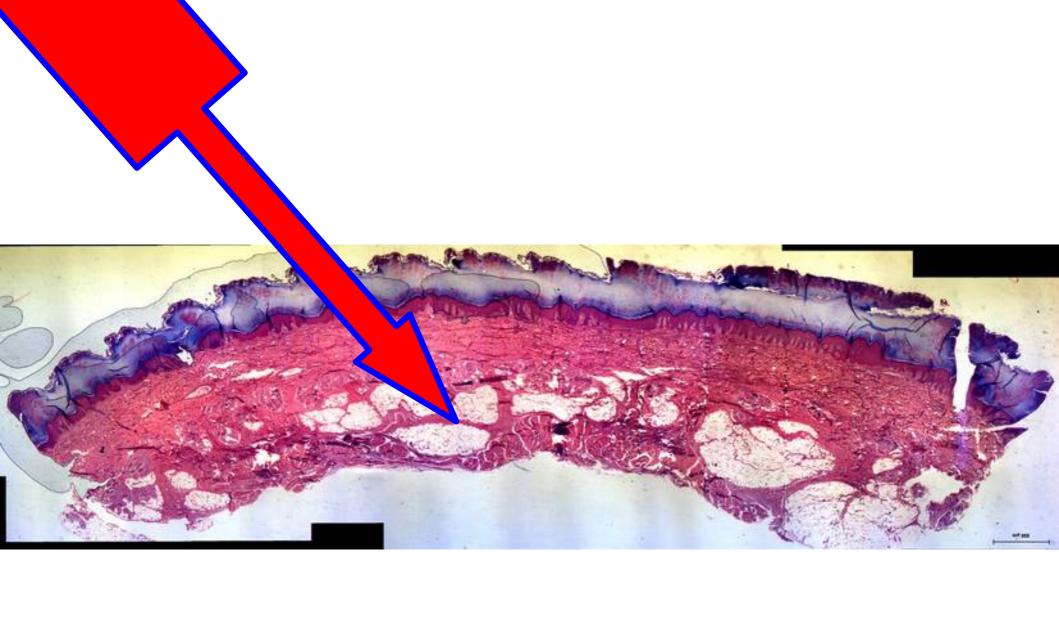


### Skin

Consider a needle penetrating skin.

Describe the layers.

Up to and including the vein.



## List the layers

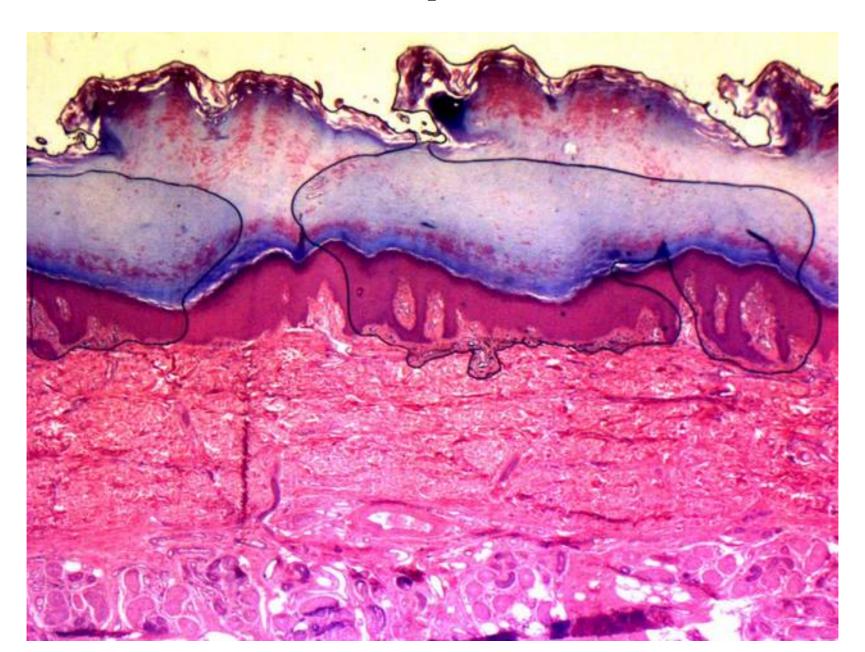
Which layers of cells are penetrated?

What do they look like?

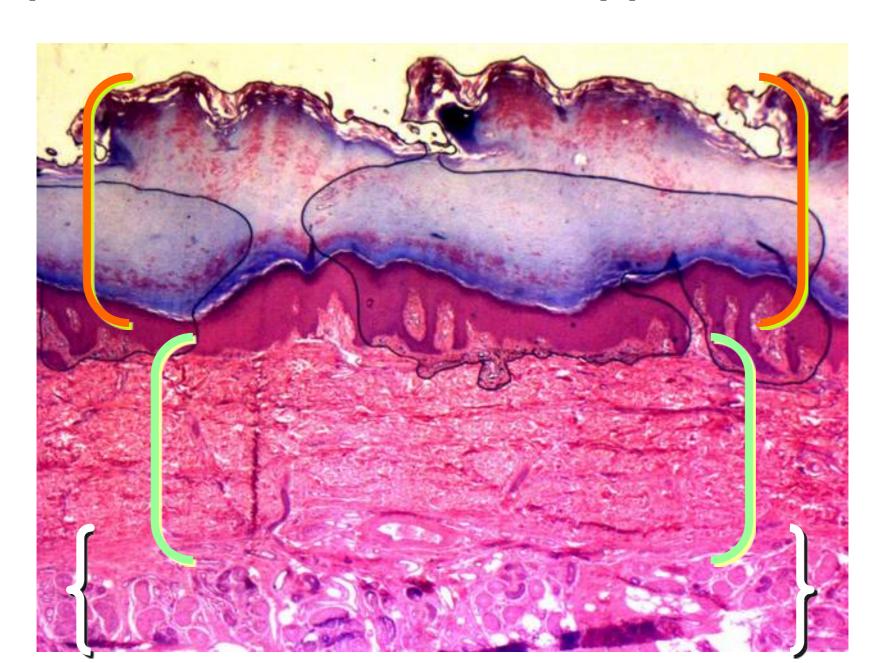
What is the function of each layer?

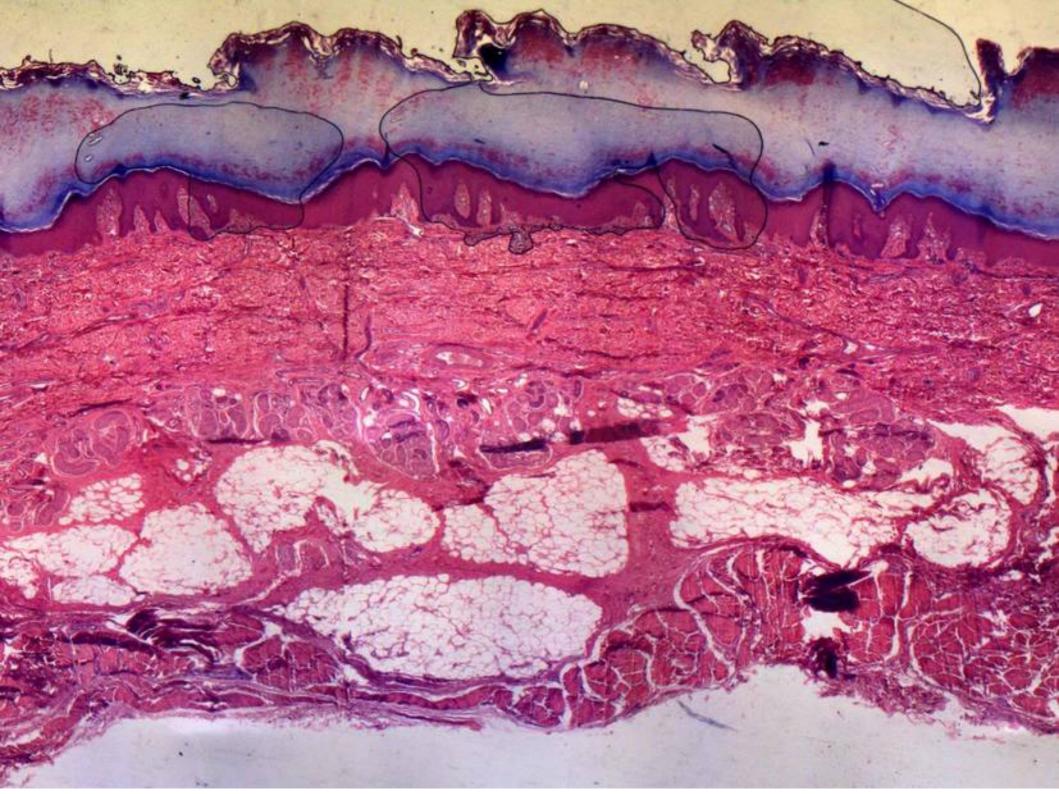
What is the function of each type of cell?

### 3 main layers seen.



### Epidermis, Dermis, Hypodermis

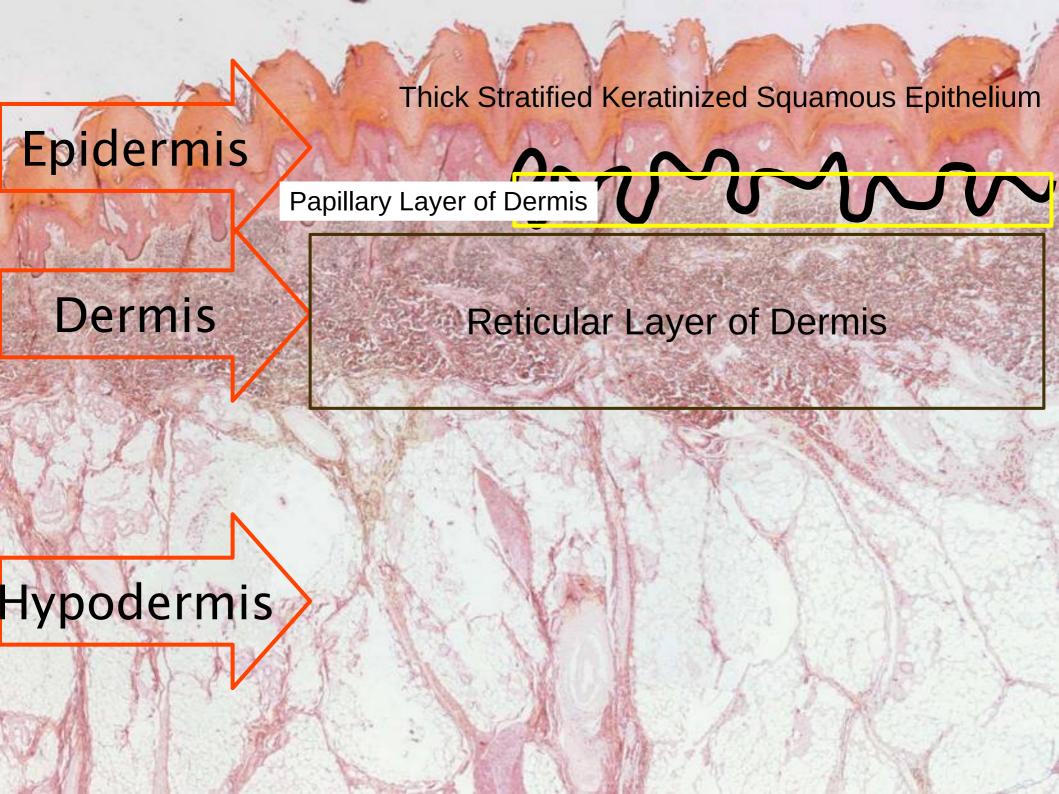




## Slide 93: Thick skin – this slide is a section through the skin of the palm of the hand.

View the slides at low magnification. You should be able to see several layers, stained different colours and intensities. For a standard haematoxillin and eosin stained slide, there are three layers:

- A dark pink to red scalloped area the epidermis.
- A central light pink eosinophilic area the dermis.
- A very thick light pink area the hypodermis.

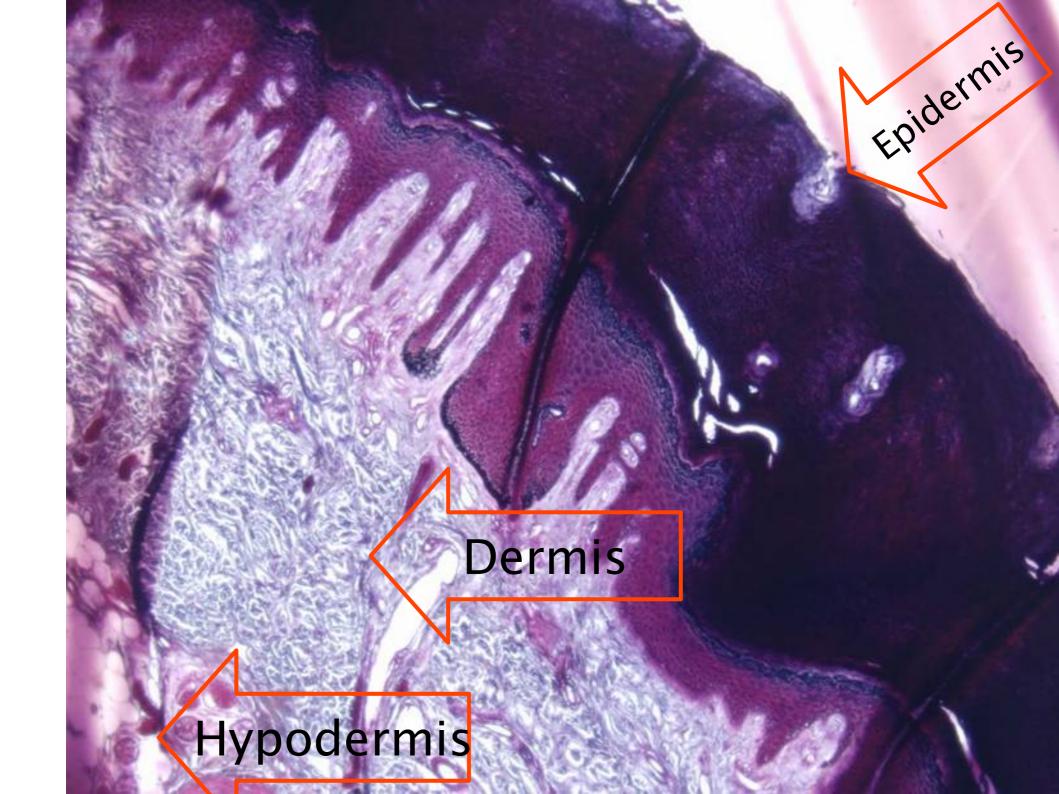


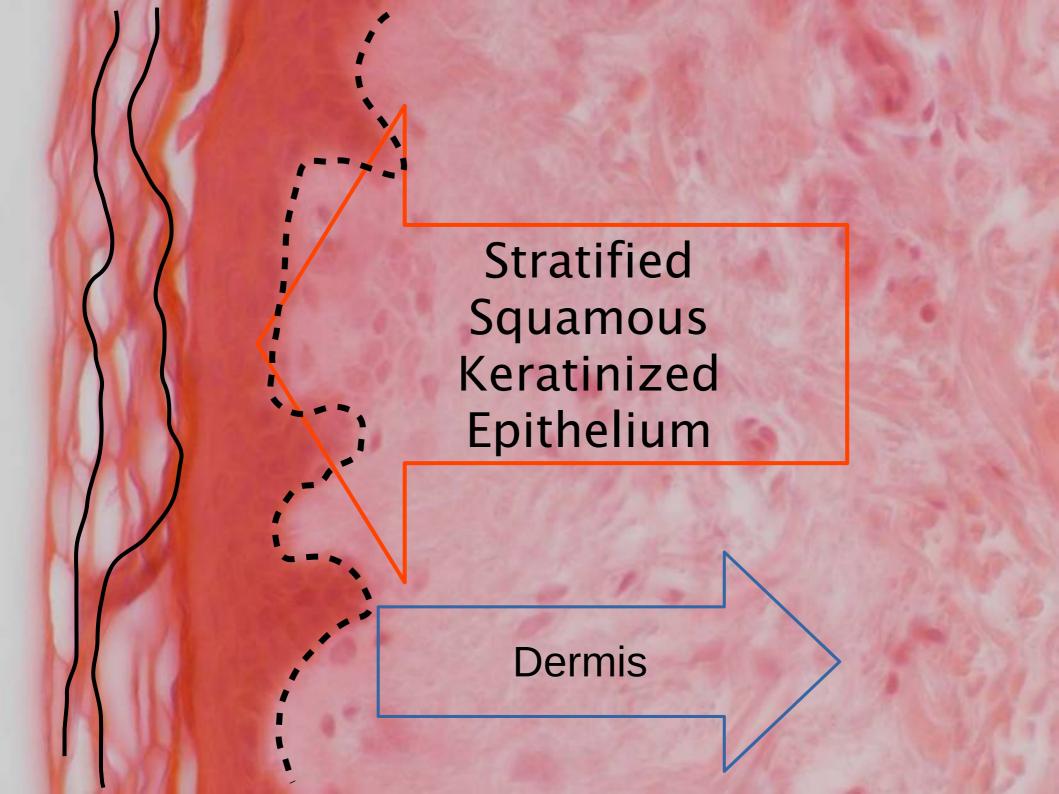
## Contextual questions

 Look at the palm of your hand and fingertips. The thickened outer layer is the outer layer of stratified squamous keratinized epithelium.

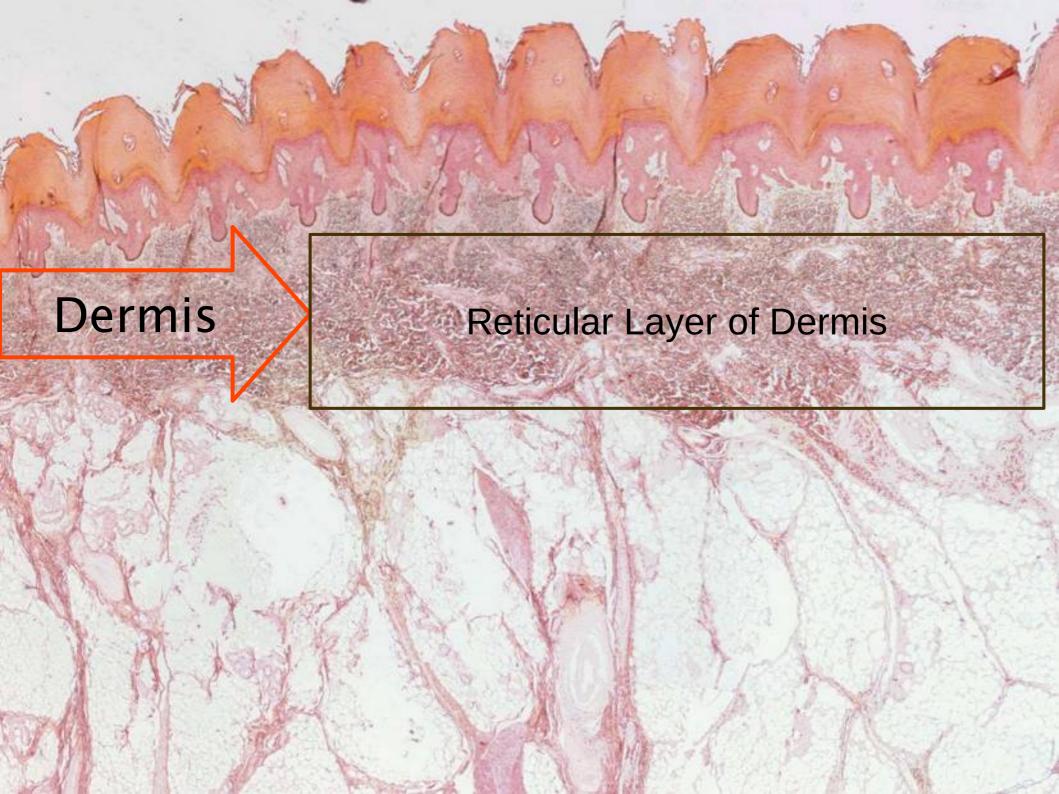
 Compare and describe the visual differences seen between the skin of the palm of your hand, the back of your hand, your forearm and scalp.

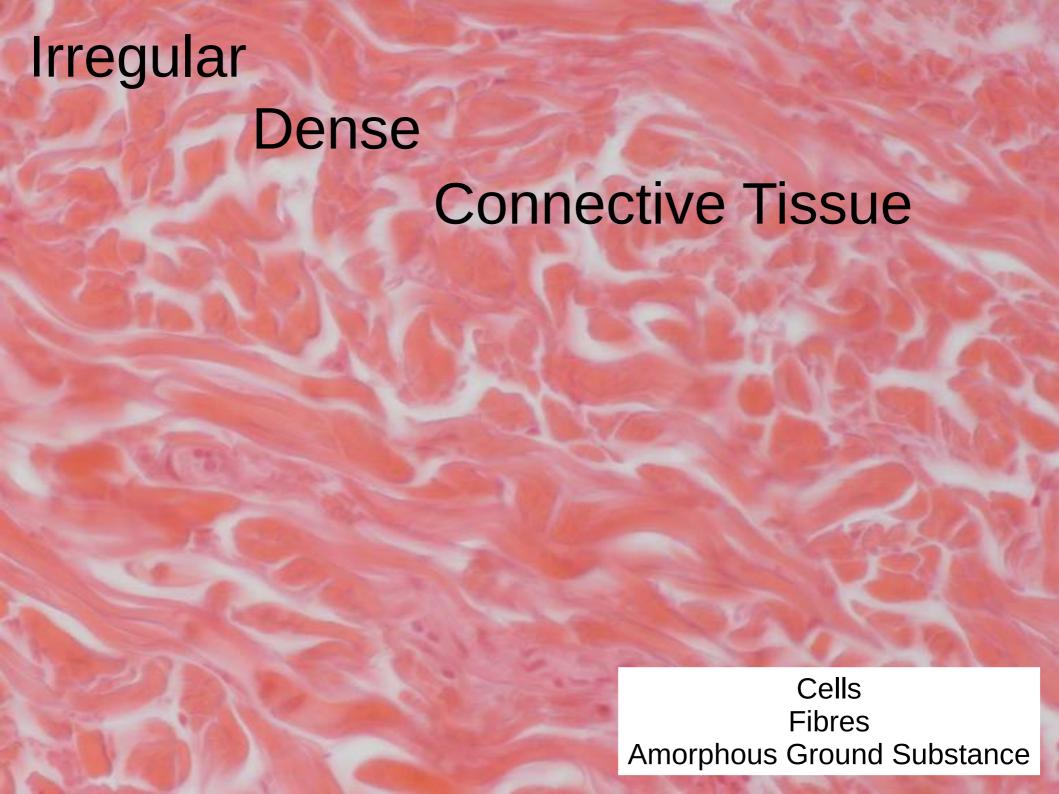
 Make a list of structures you expect to find in skin using the microscope.



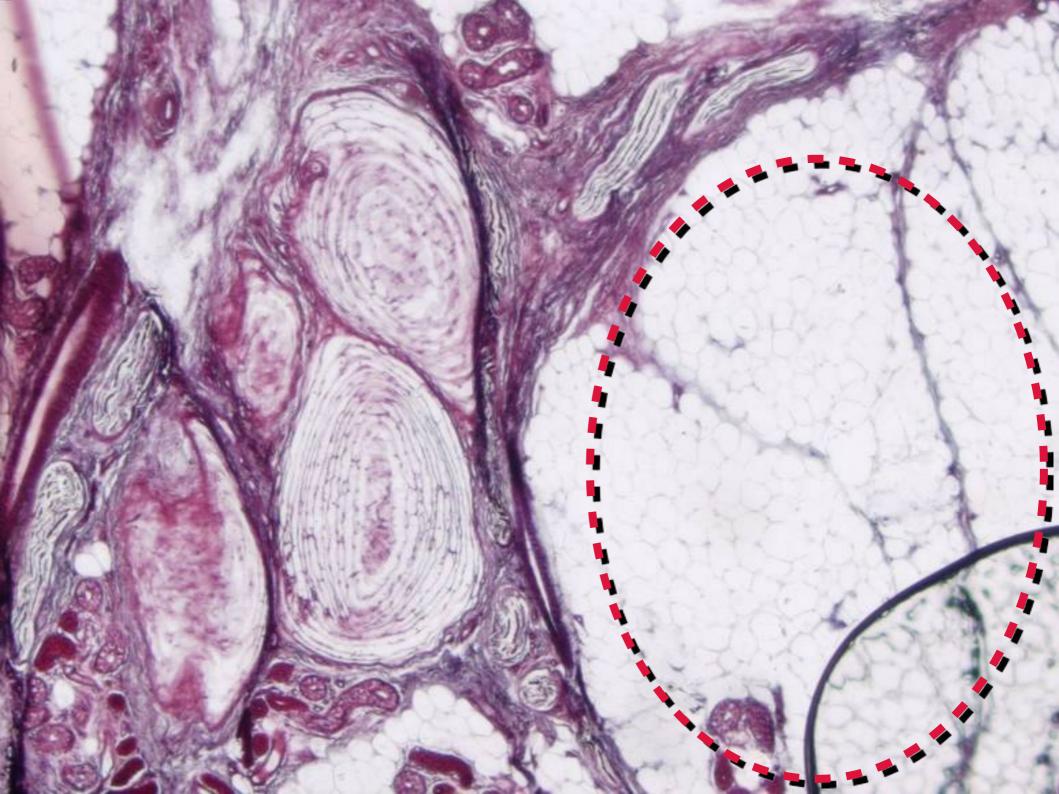


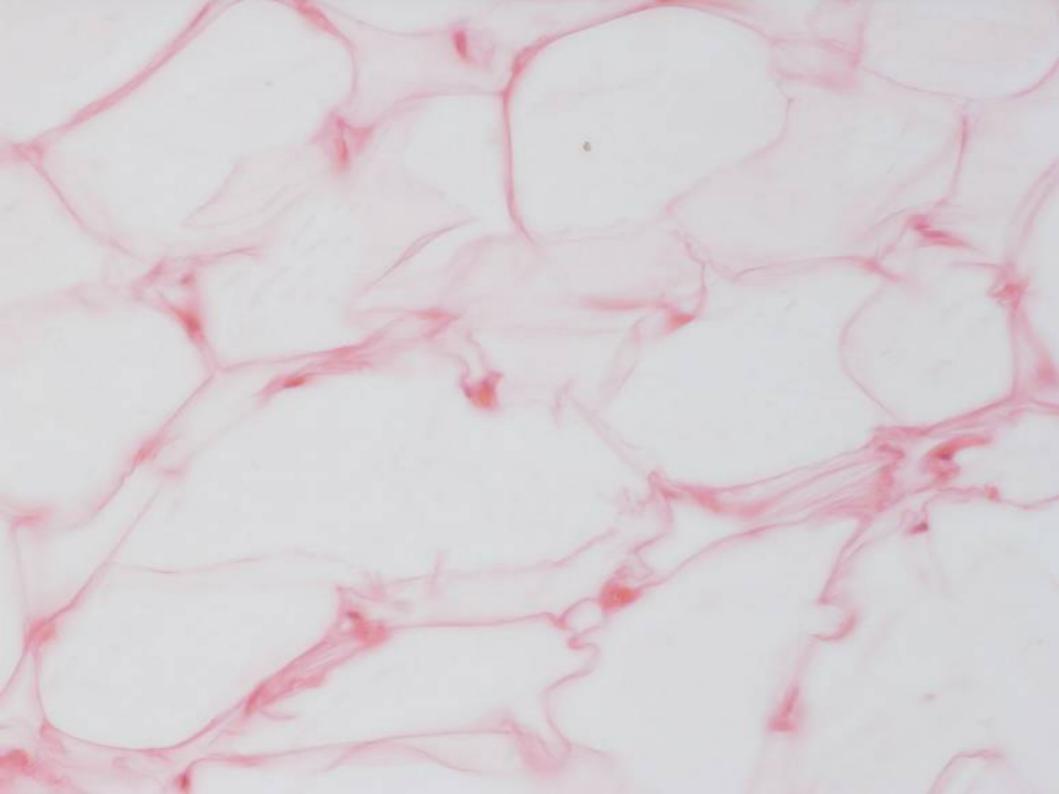
# All Connective Tissues 3 Components

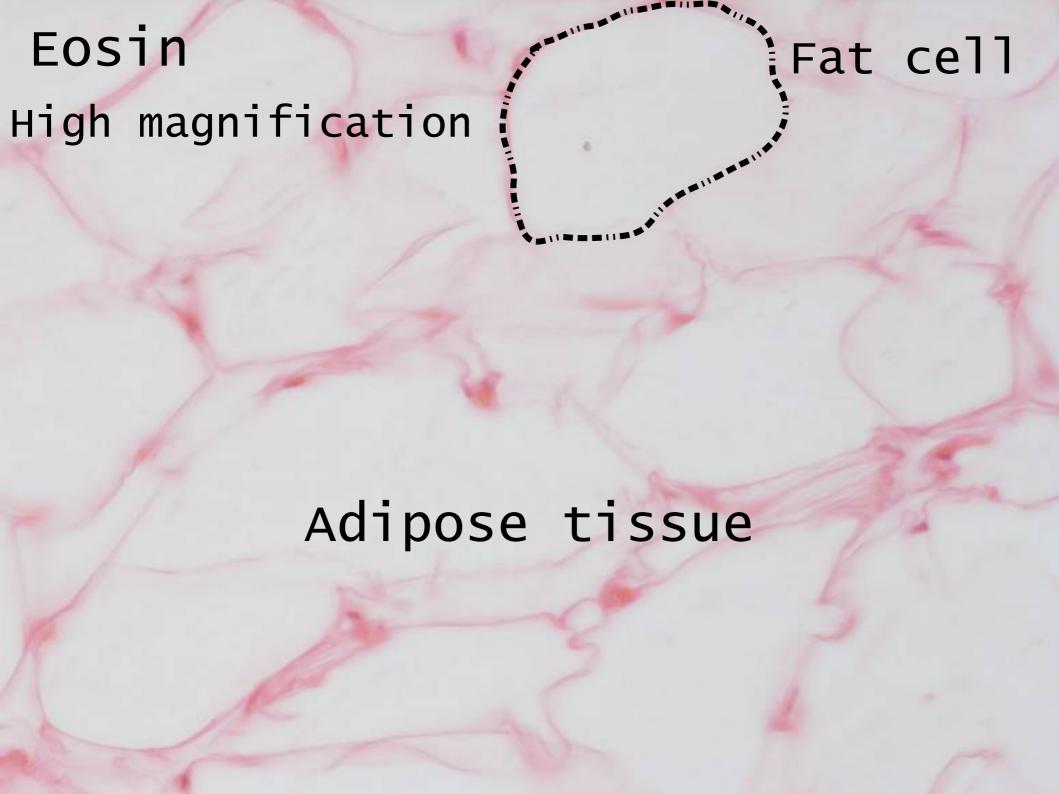




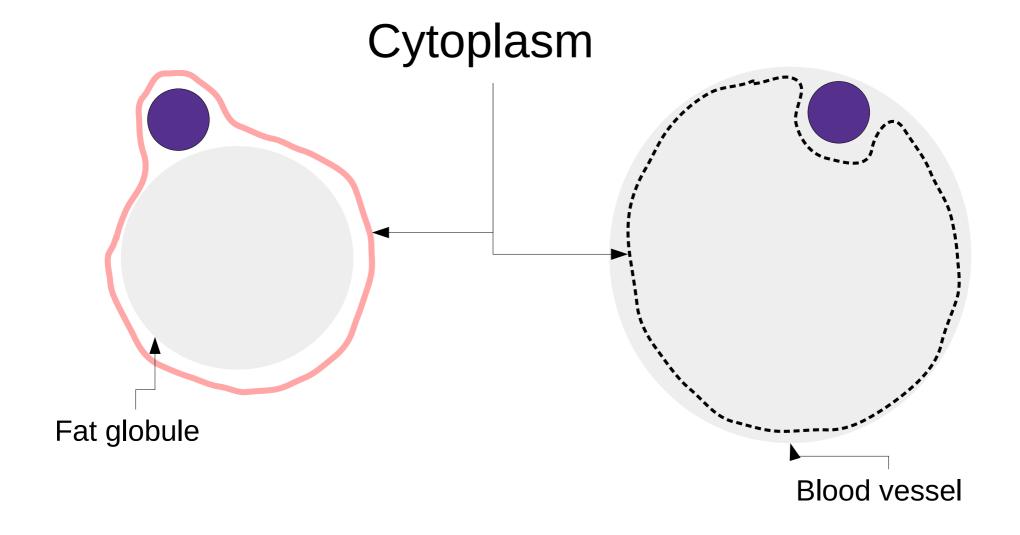
# Hypodermis

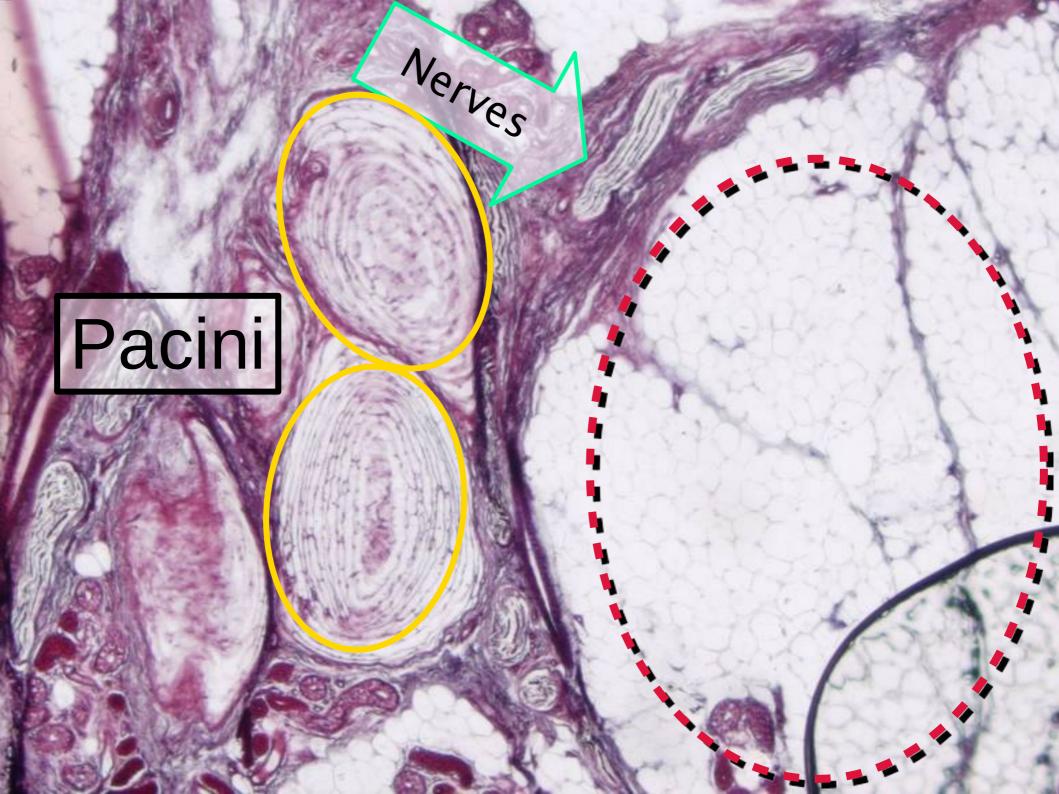


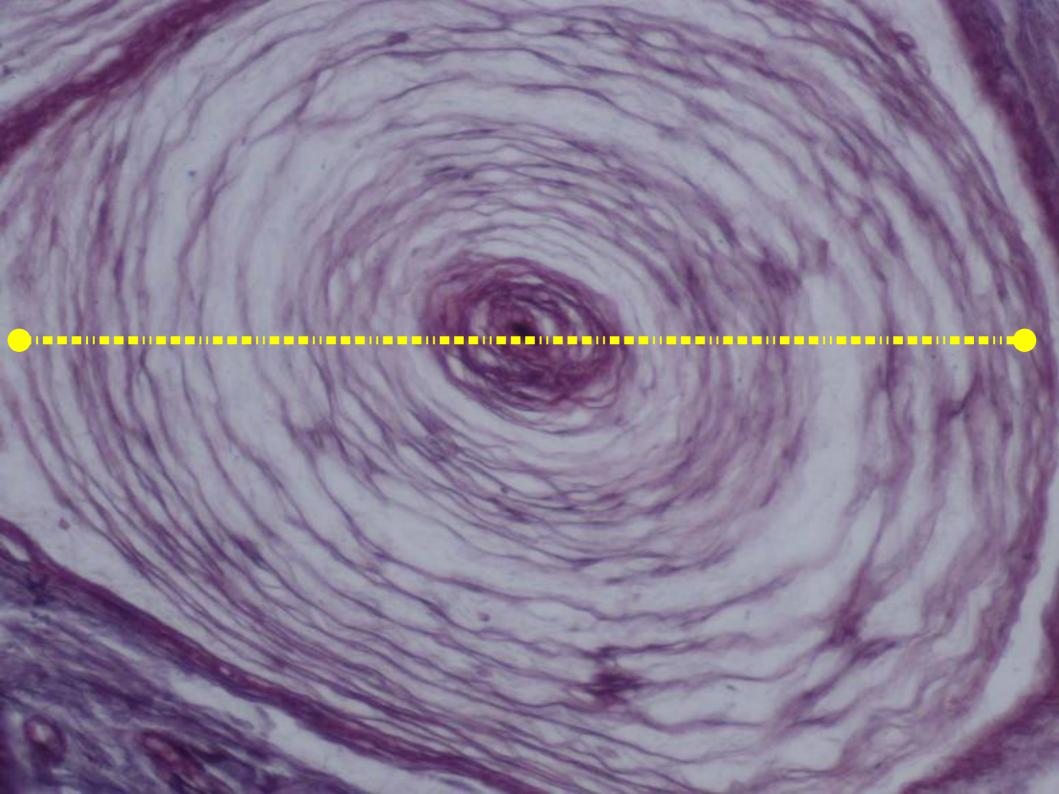


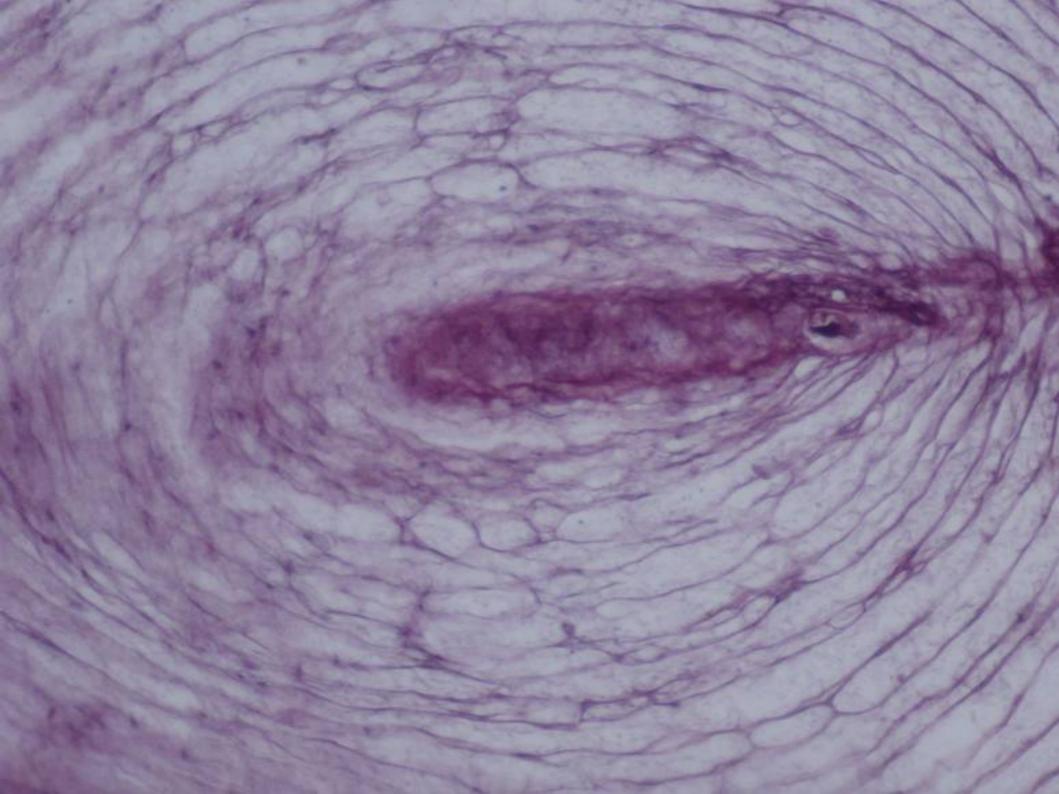


Fat cell Endothelium

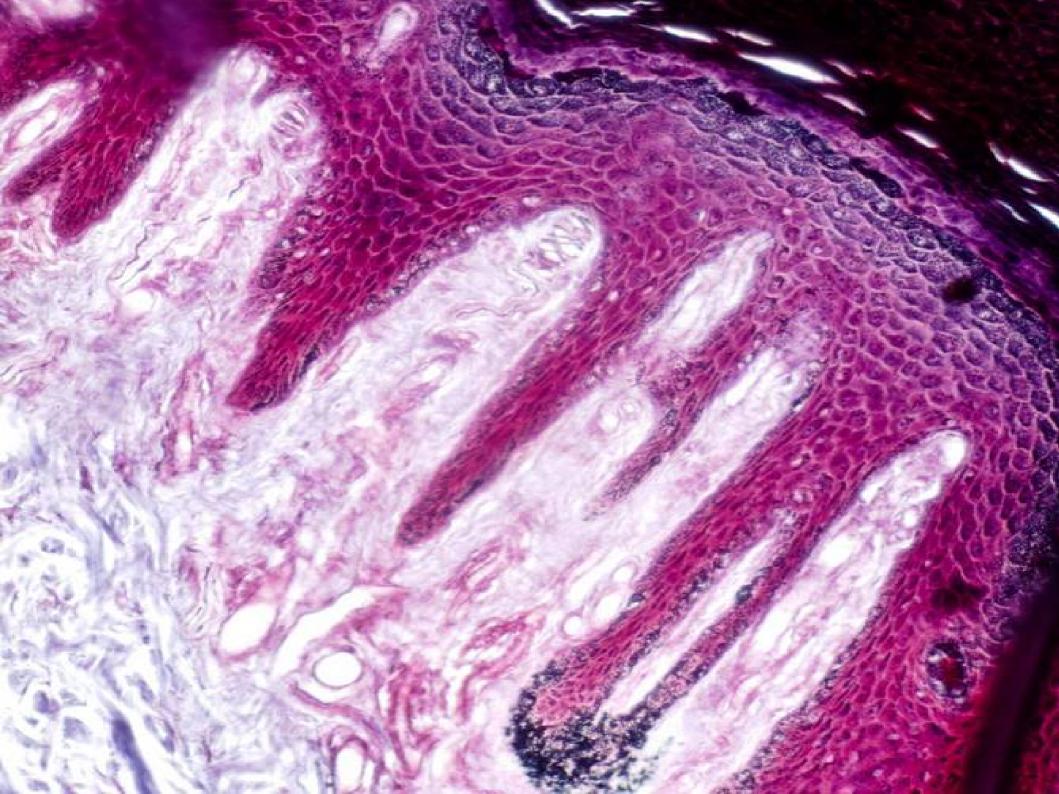




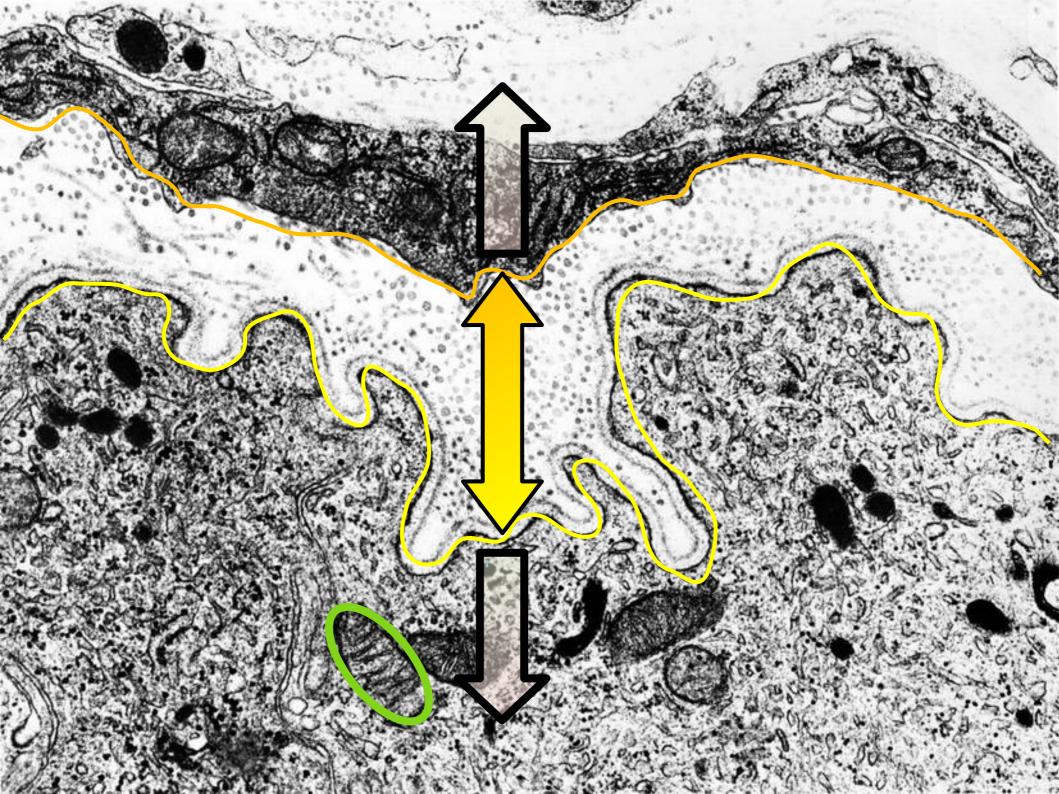


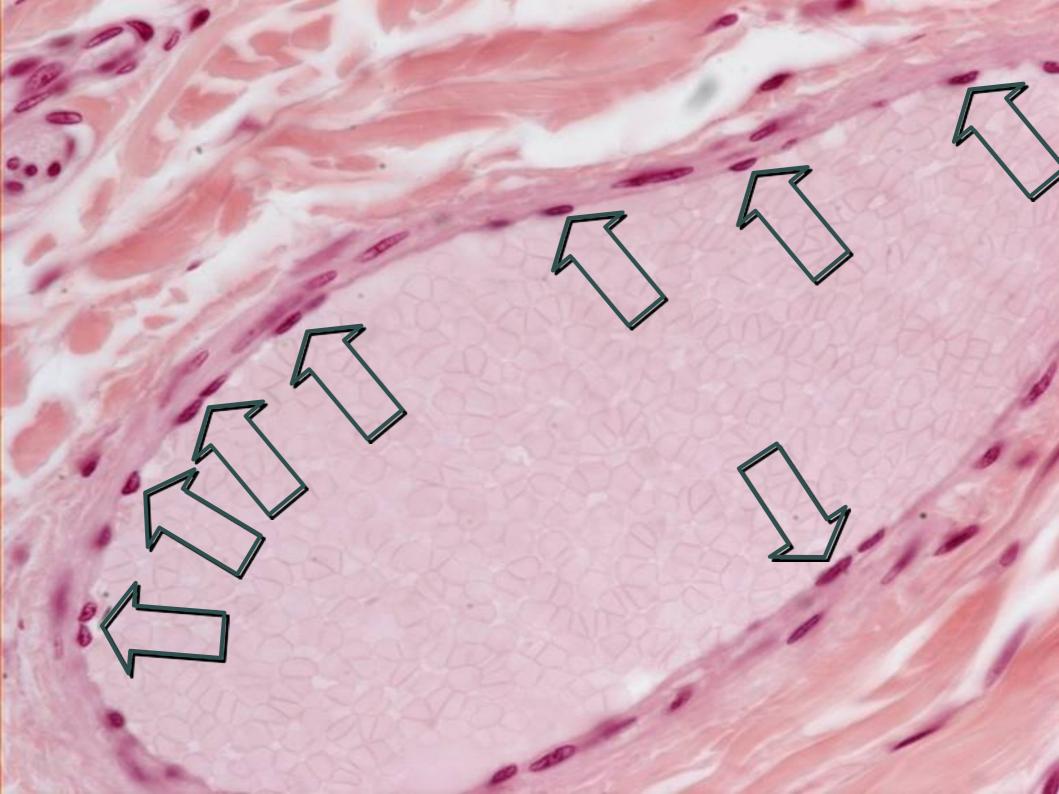


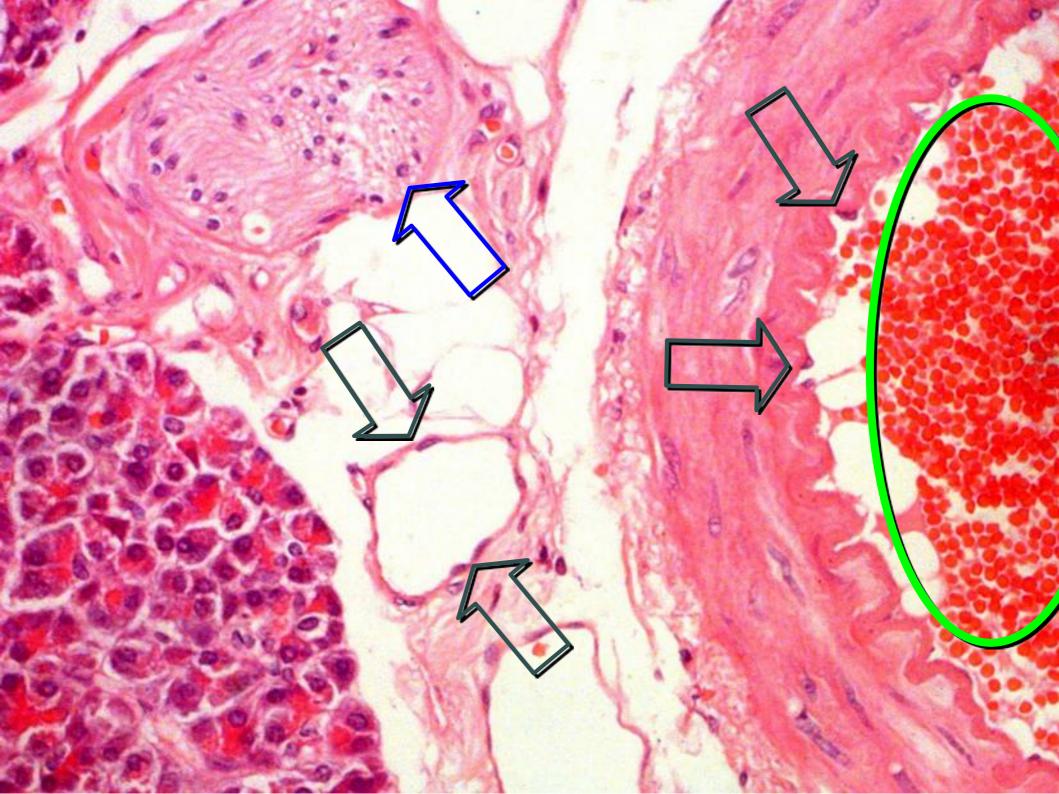


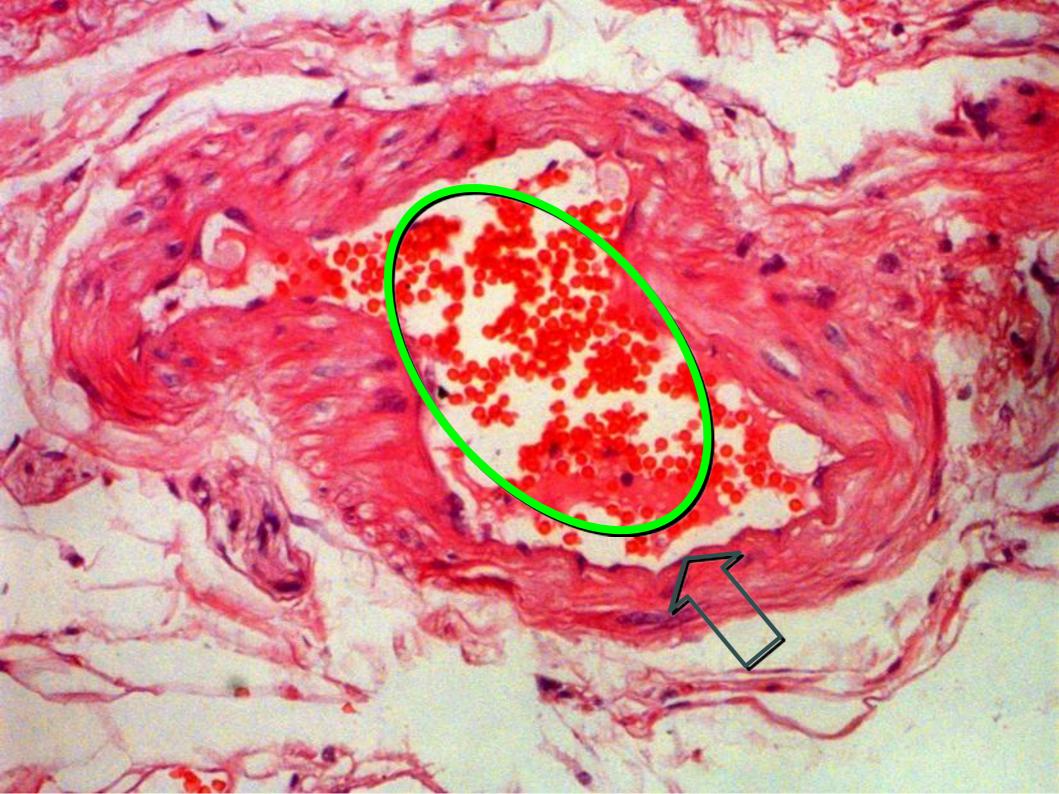




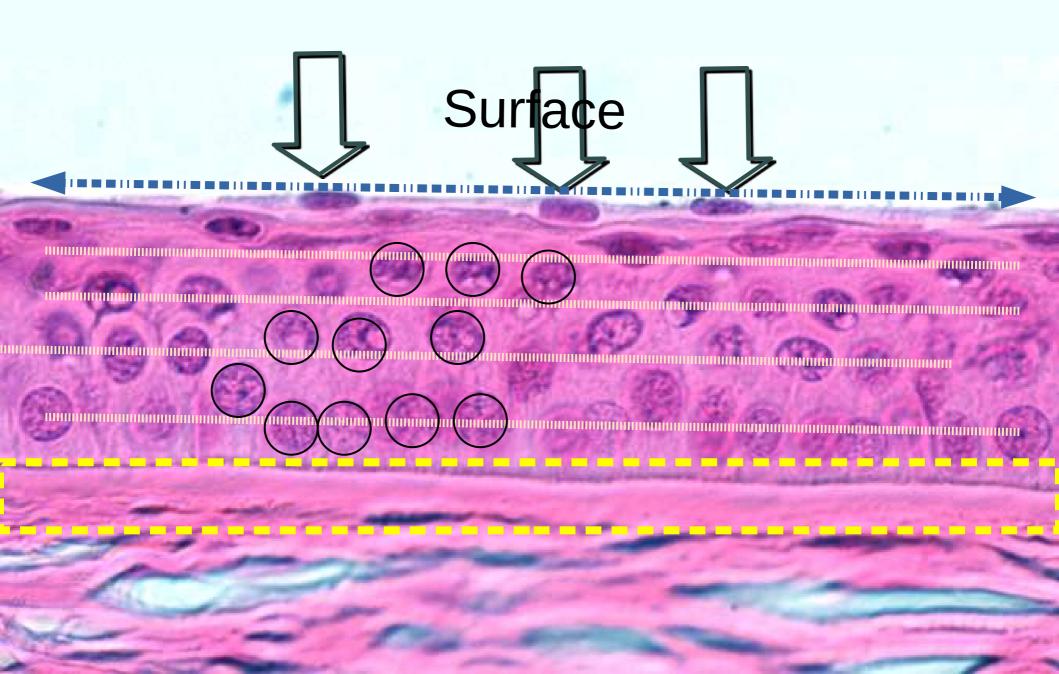






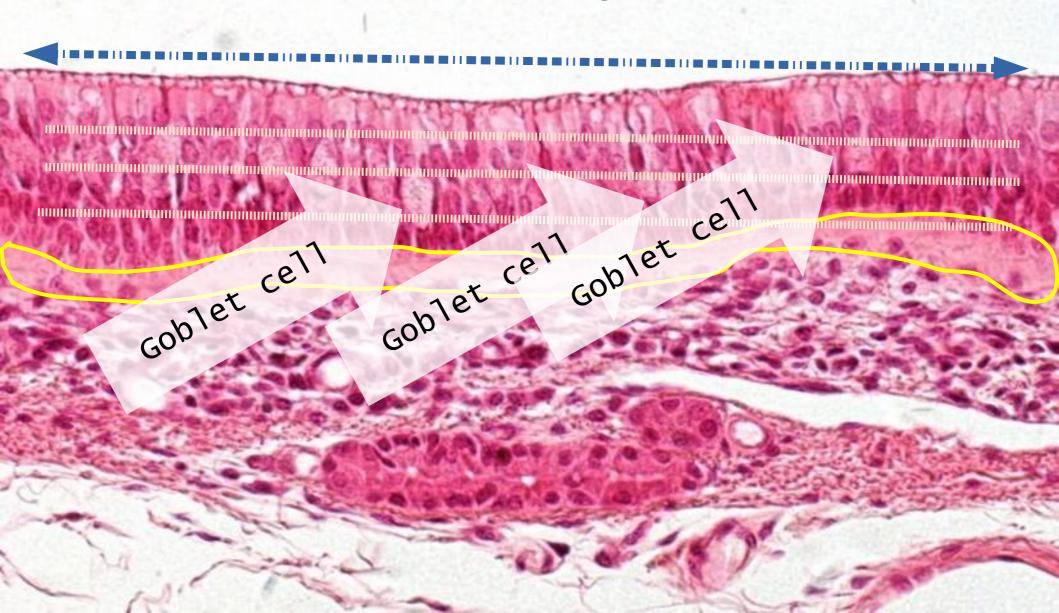


## Thin stratified squamque enithelium

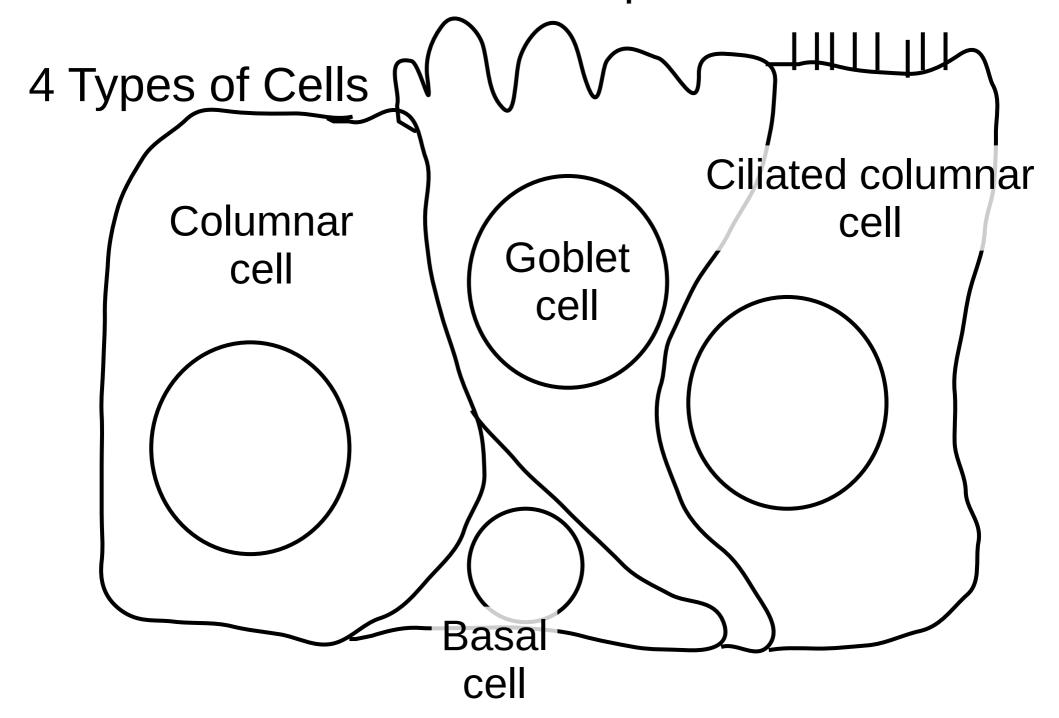


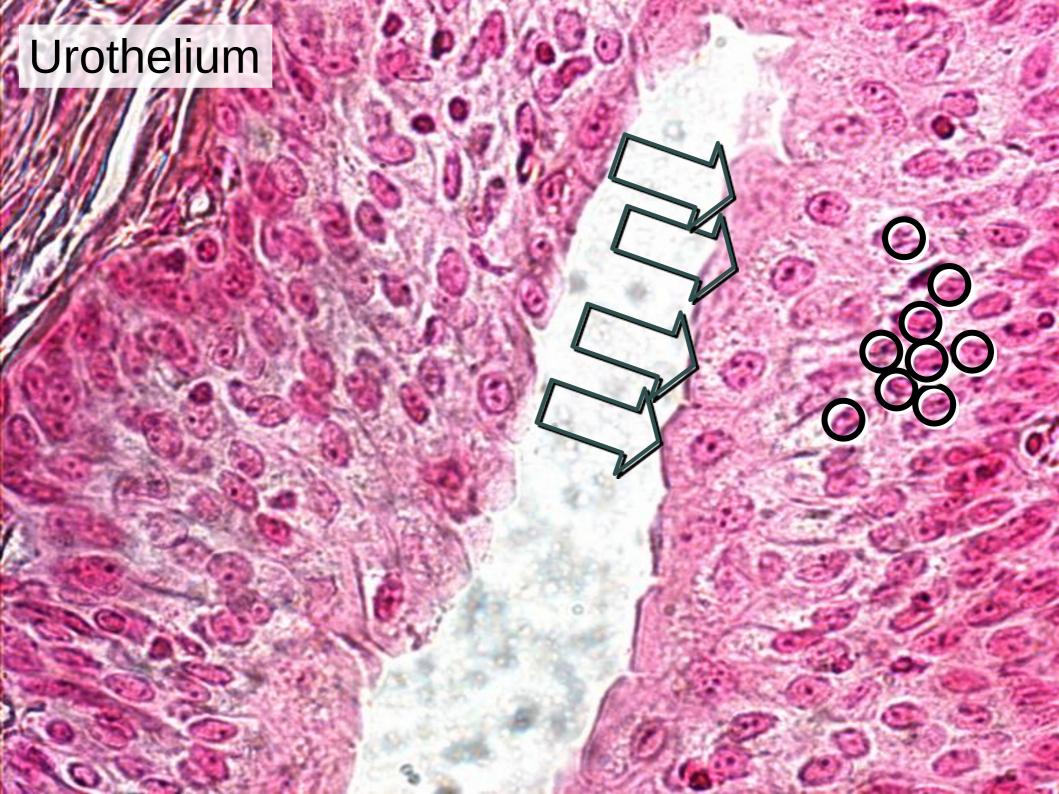
## Pseudostratified columnatepithelium

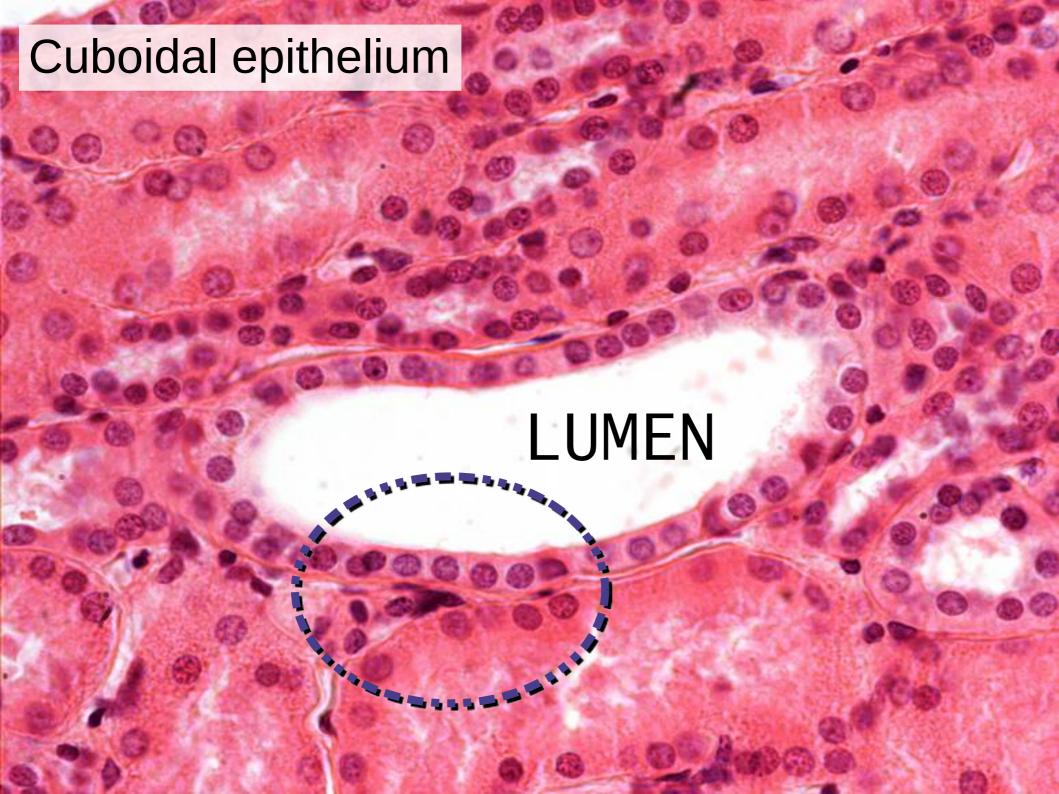
### Surface



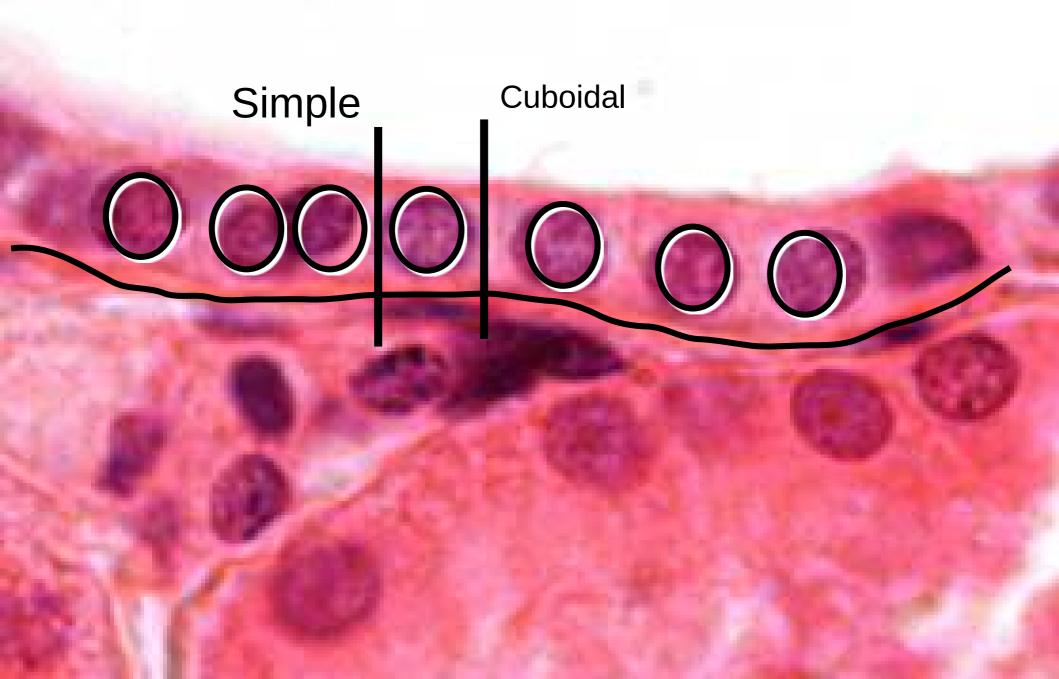
#### Pseudostratified columnar epithelium



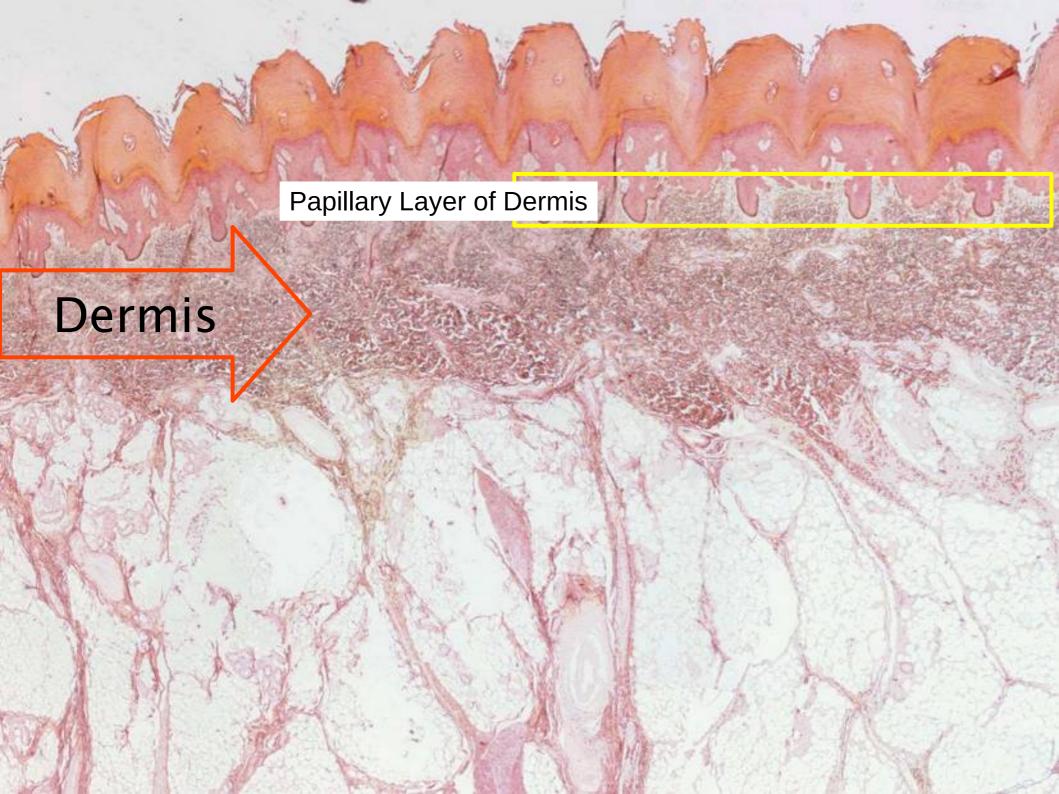




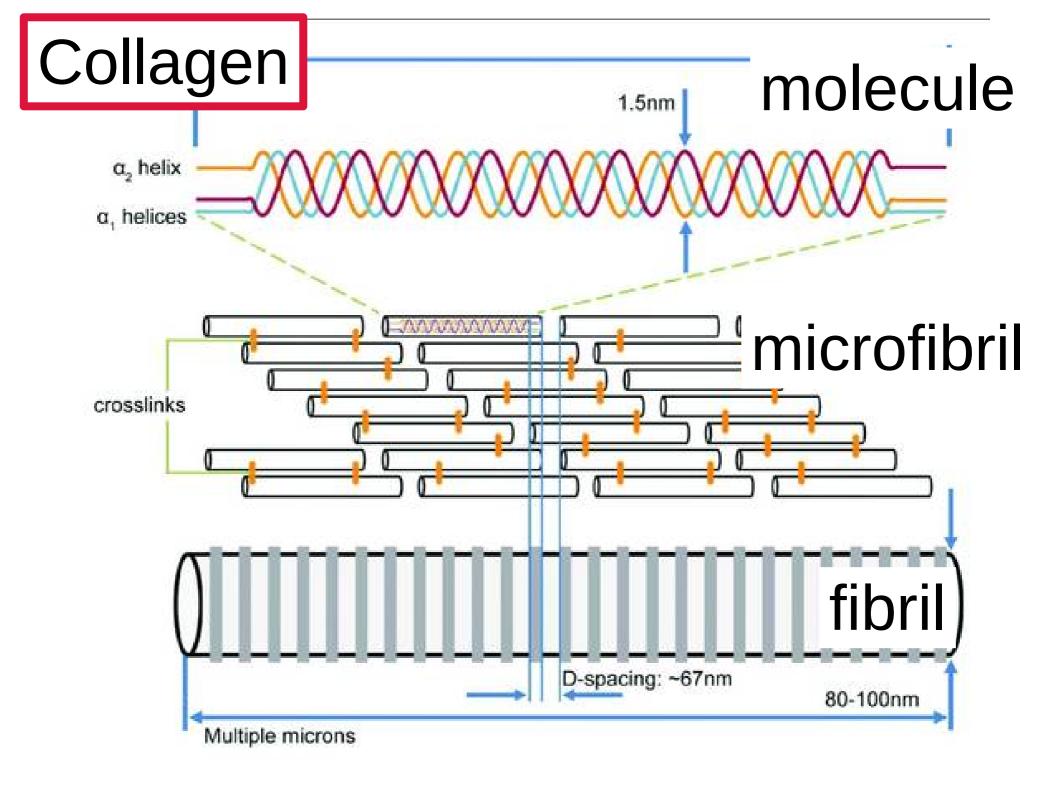
## LUMEN

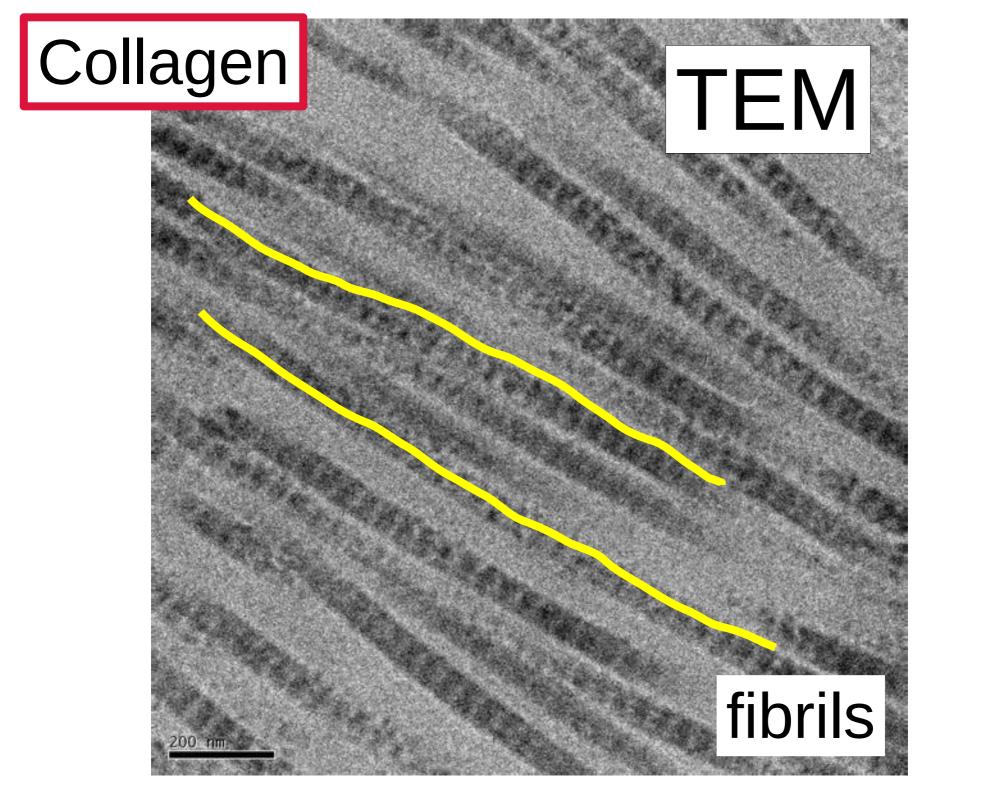


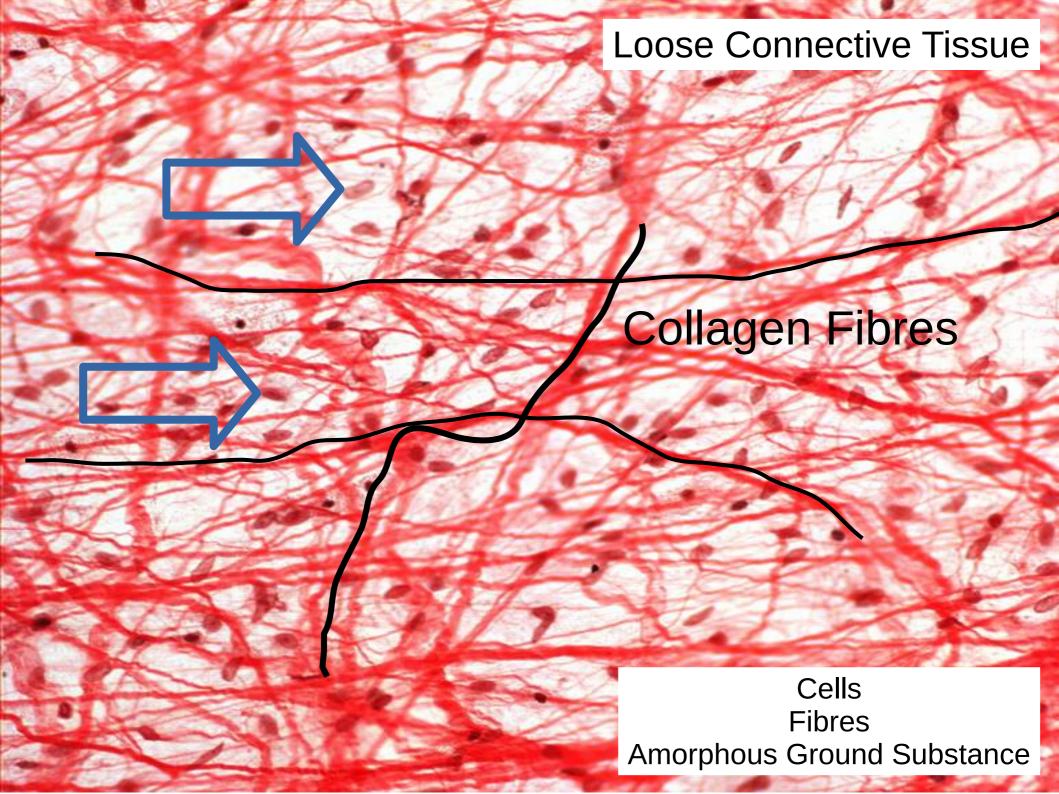


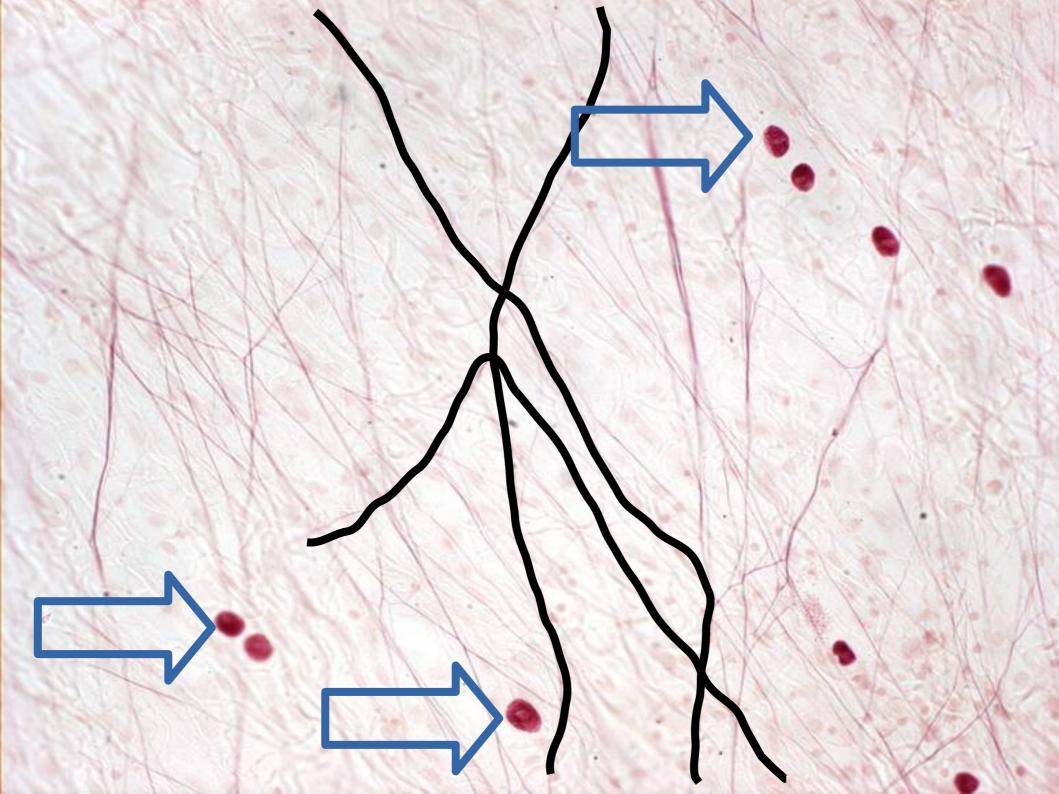


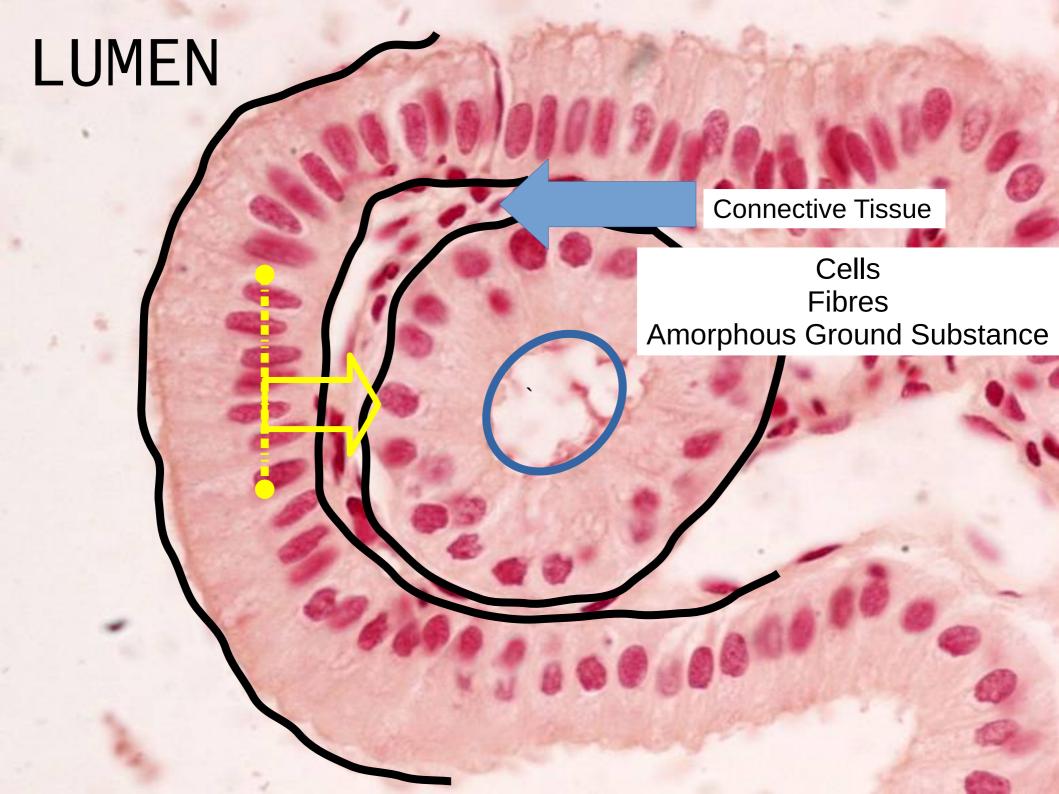


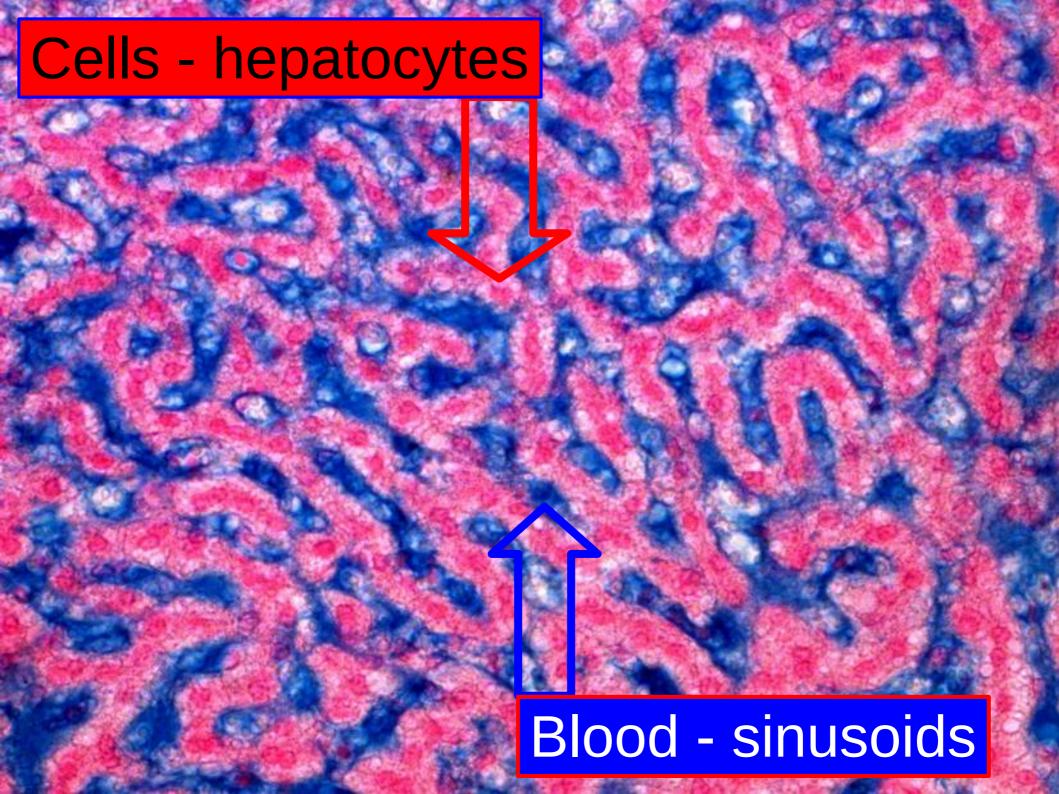


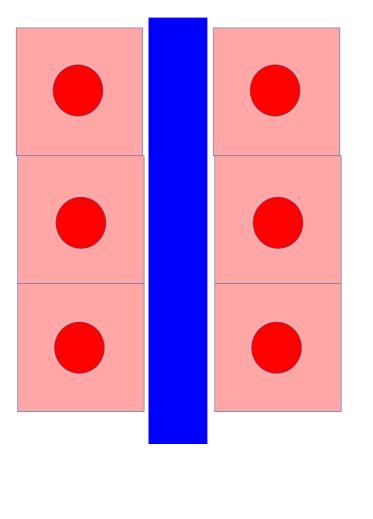


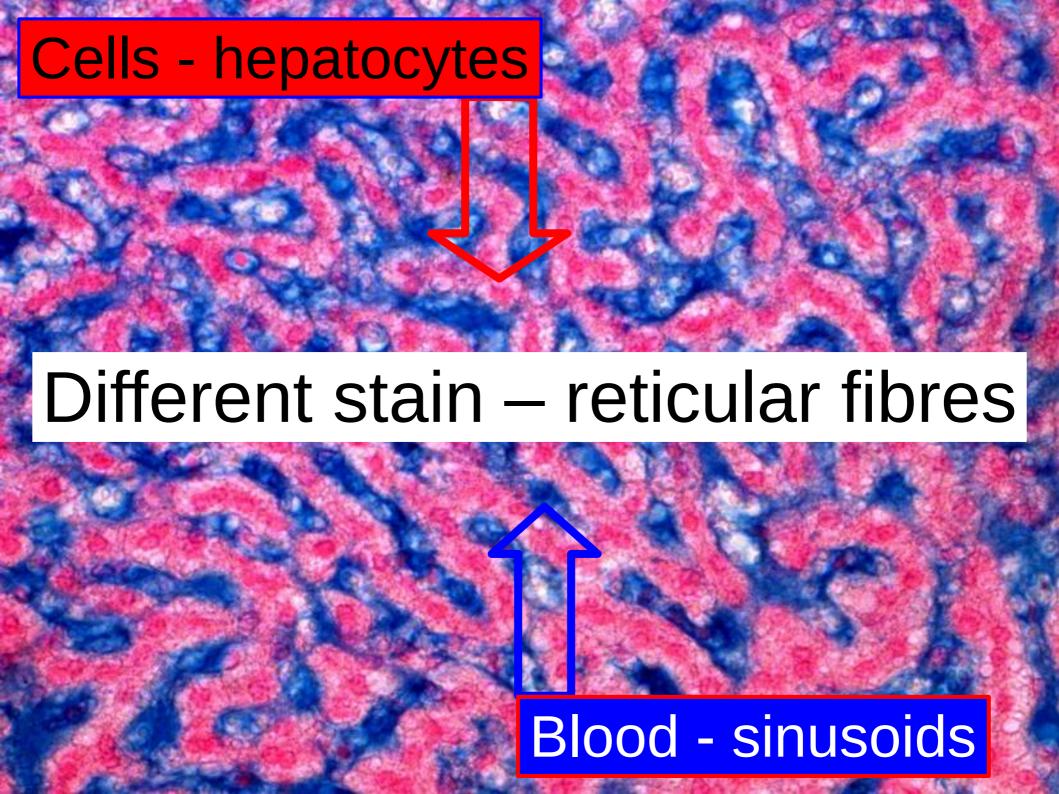


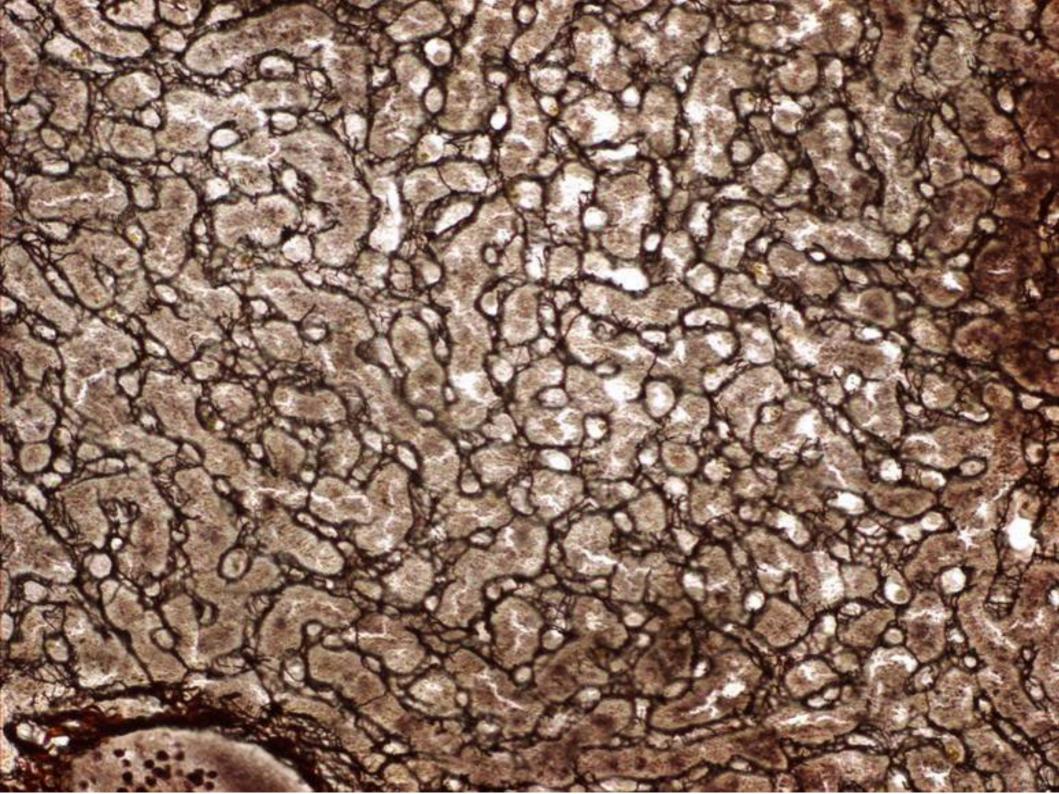




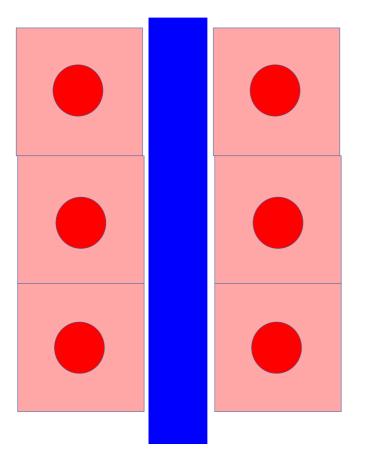


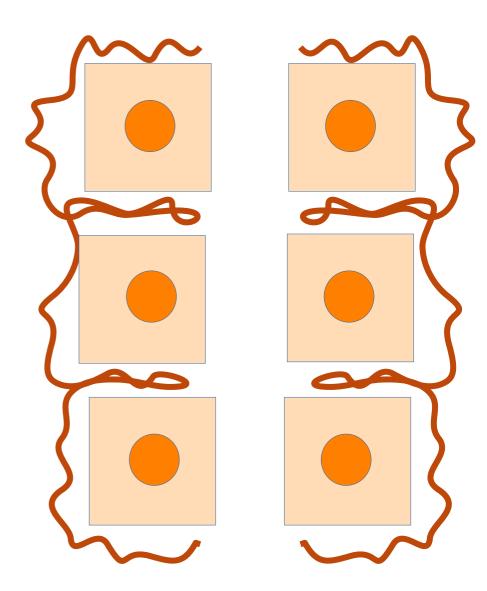


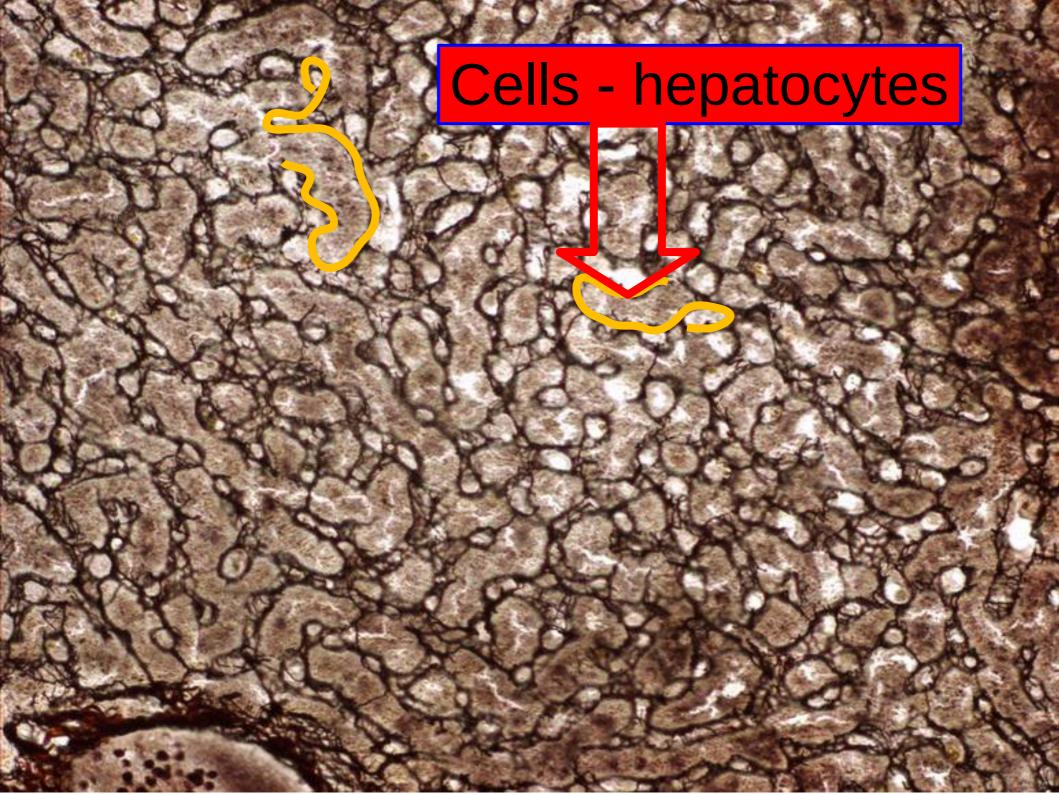


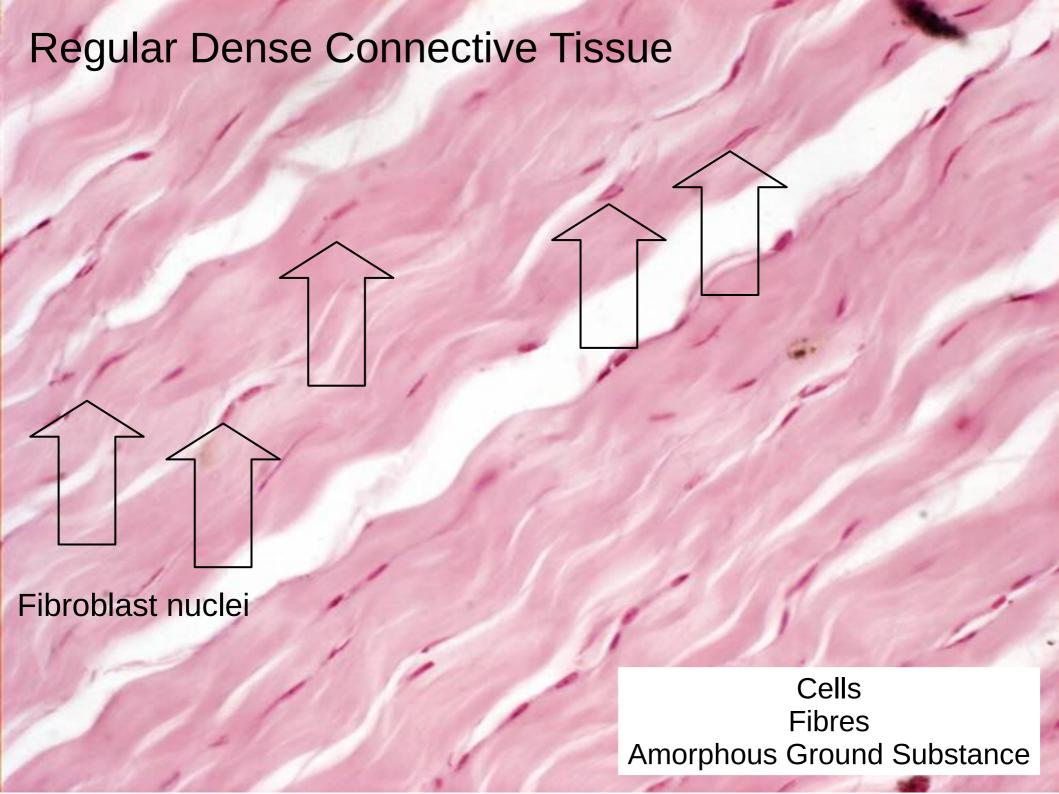


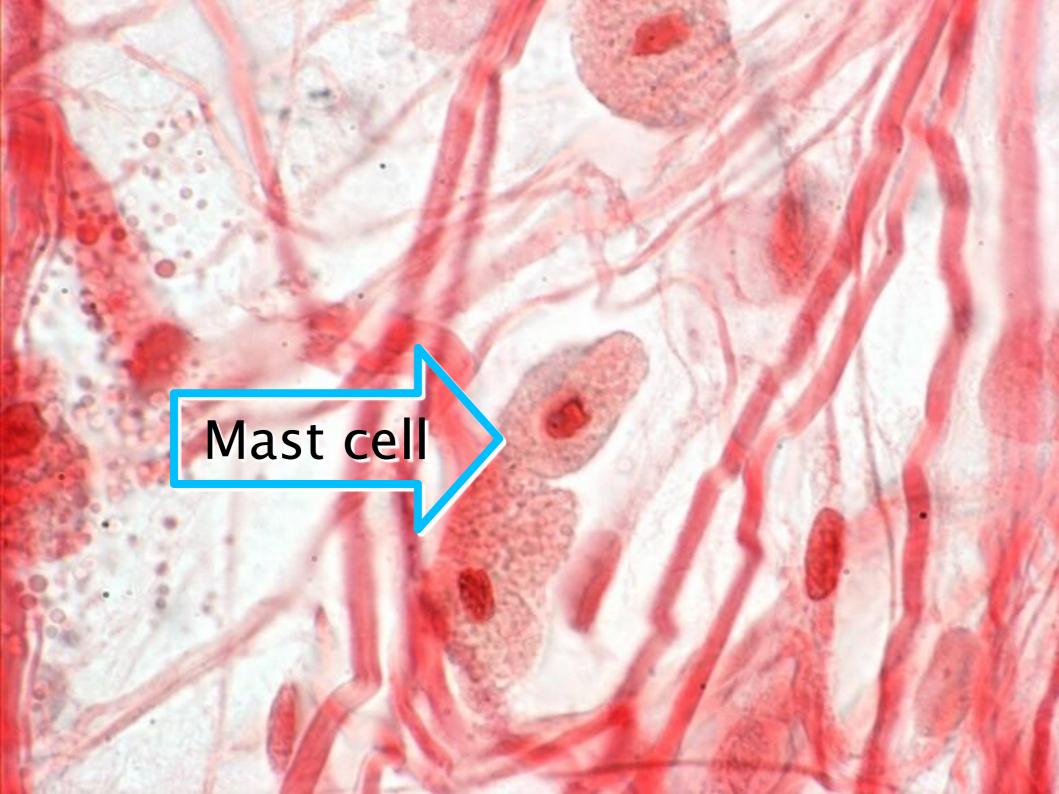












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