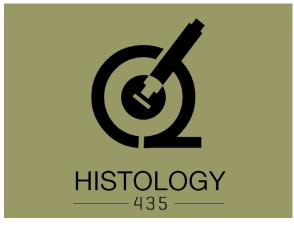
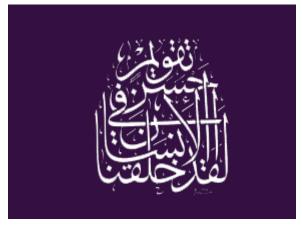
Motivational Corner:

Winners are not people who never fail, but people who never quit.









Practical exam revision

+ Wall of the heart

Has 3 layers:

1-endocardium : endothelium (most inner)

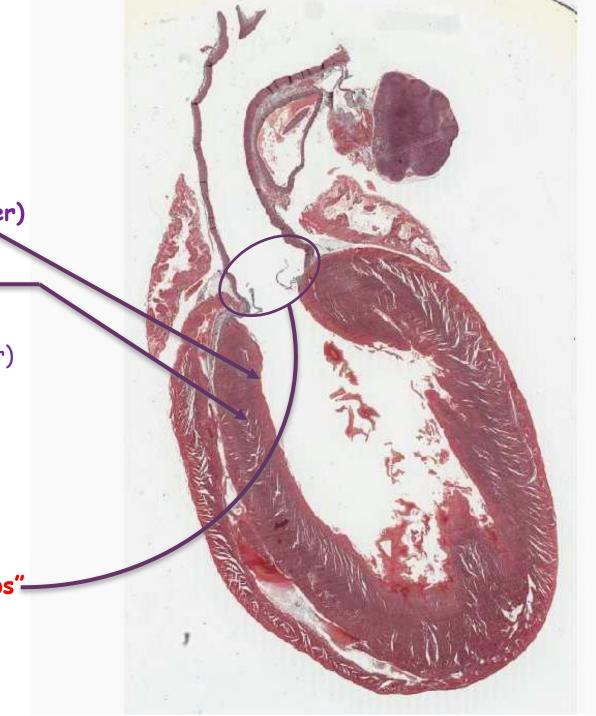
2-myocardium : (middle layer)

3-epicardium: mesothelium (most outer)

N.B

Endothelium & Mesothelium: are simple squamous epithelium

Cardiac Valves "cusps"



+ Cardiac valves

*Each cusp of heart valve is formed of:

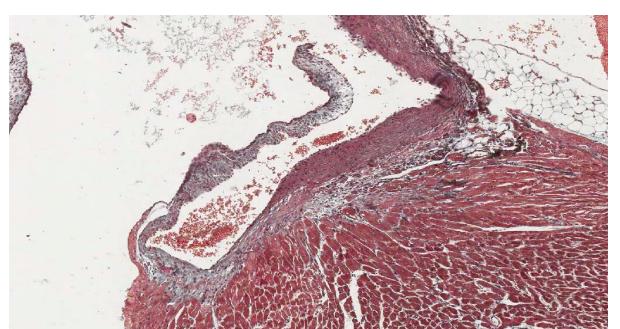
Core of Dense irregular C.T, this core is covered by Endothelium.

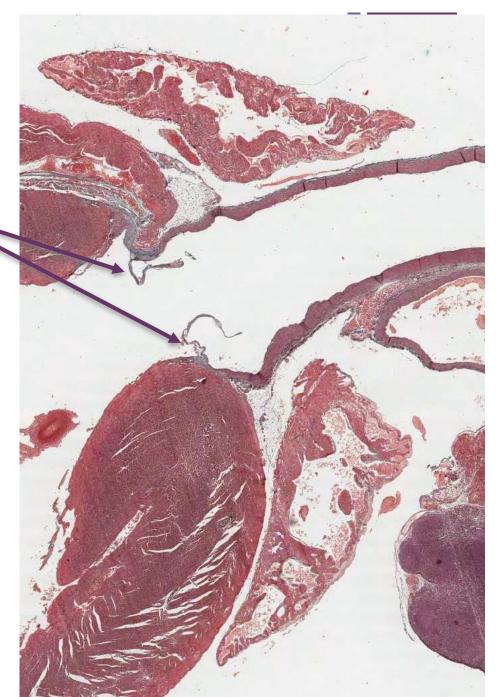
*Features:

> Avascular

> Blood capillaries can be found only in the base "root" of the

cusp.





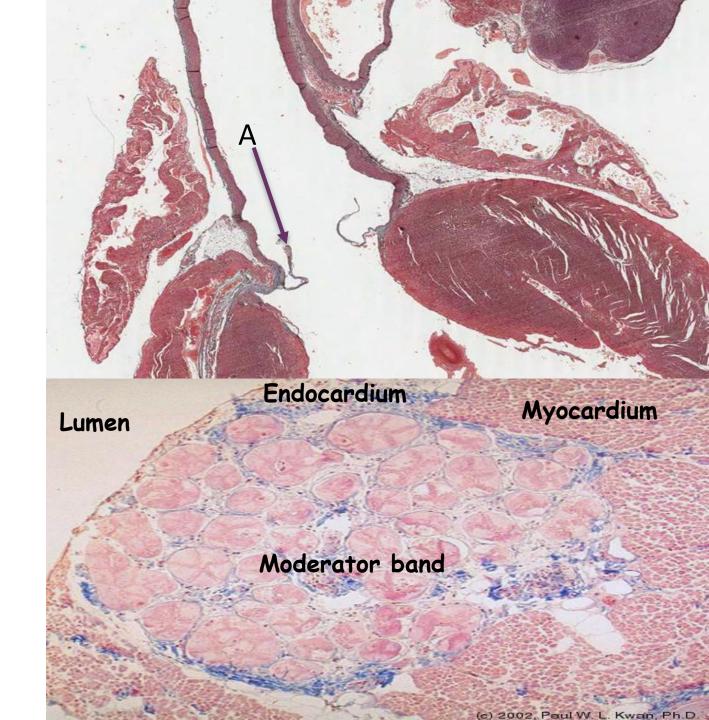


Cardiac Valve

- * Identify: Cardiac Valve
- * Identify A: Aortic valve

Moderator Band

- * Features:
- > Present in the right ventricle.
- > Purkinje fibers.





Endocardium and Myocardium

* Identify the structure:

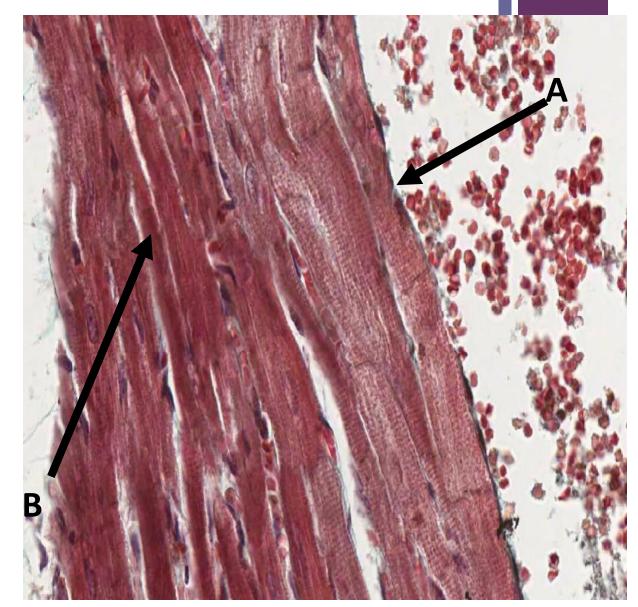
Endocardium and Myocardium.

* Identify A and B:

A: Endocardium

B: Myocardium.

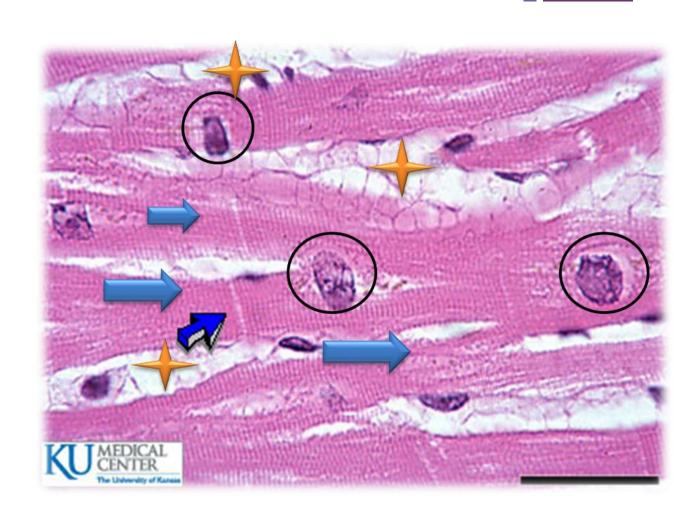
- * Features:
- Endothelium.
- > Subendothelial C.T.
- > Dense C.T. layer.
- > Subendocardial layer





*Features:

- > Intercalated discs (blue arrows).
- > Endomysium: loose C.T. (Orange stars)
- Nuclei of myocardial cells: Central and round nuclei.
 (Black Circles)

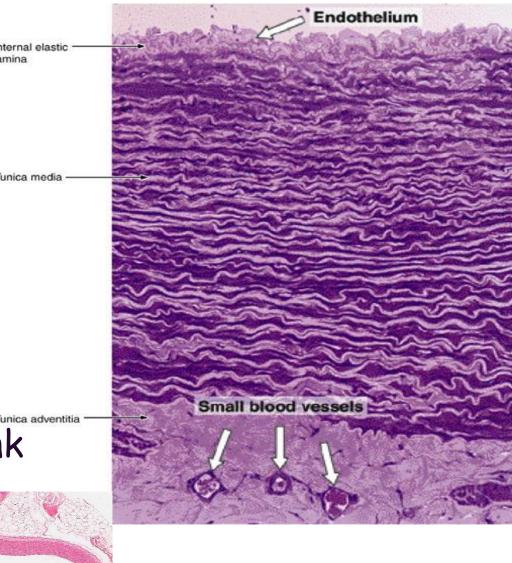


+ Elastic Artery

- *Features:
- > Endothelium.
- > Fenestrated elastic lamellae (membrane) in the media.
- > Vasa vasorum in adventitia and outer

part of media (for blood supply).

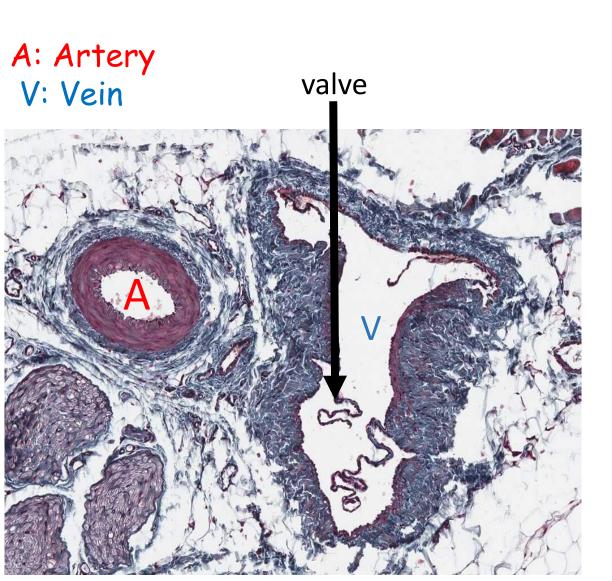
Examples: Aorta and Pulmonary Trunk

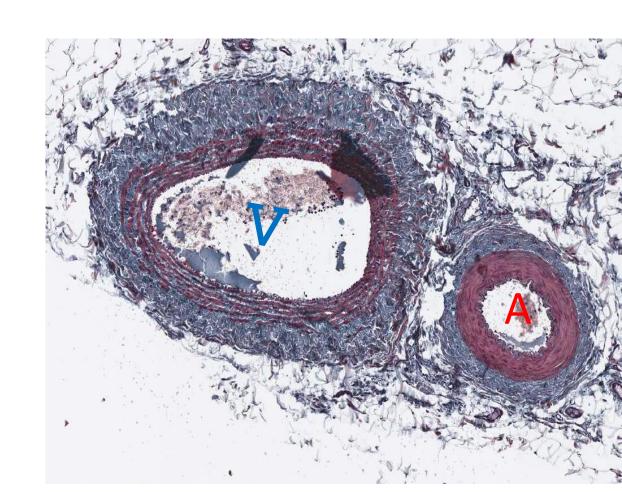




+ Medium-Sized Artery and Vein



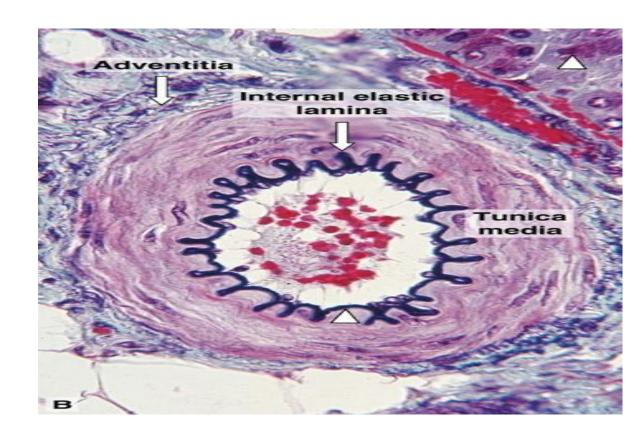




+Medium-Sized Artery

- *Identify: medium-sized artery
- *Features:
- > Prominent internal elastic lamina
- > Tunica media
- > Tunica Adventitia
- Example:
 Brachial, Ulnar and Renal Artery

Largest layer: T.Media





+ Medium-Sized Vein

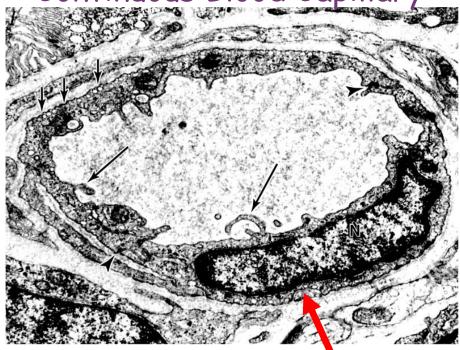
- * Identify: Medium-Sized Vein
- * Features:
- > NO internal elastic lamina.
- > Type I & III Collagen fibers in T. Media.
- T. Media is Smaller than T. Adventitia.



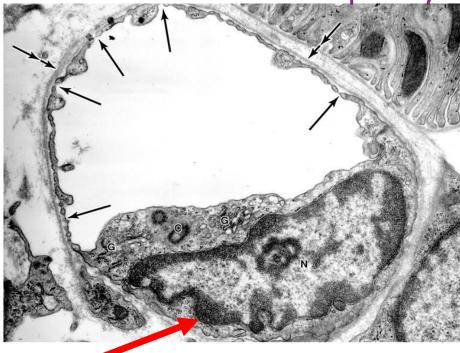
+

Blood Capillaries

Continuous Blood Capillary



Fenestrated Blood Capillary



* Features:

Nucleus of the endothelial cell

Continuous Blood Capillary no pores "fenestrae".

Molecules are transferred via **Pinocytosis** (fluid engulf)

* Distribution:

- Muscle
- Nervous Tissue.

* Features:

Fenestrated Blood capillary with diaphragm.

* Distribution:

- Intestine
- Pancreas
- Endocrine glands.



Credit

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Thanks for checking our work, Good luck.

- -Team histology.
- -Big thanks to Histology 434

