

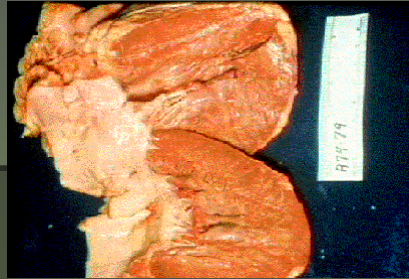
Picture Slide Show

Heart, Vessels, Lymph, Immune

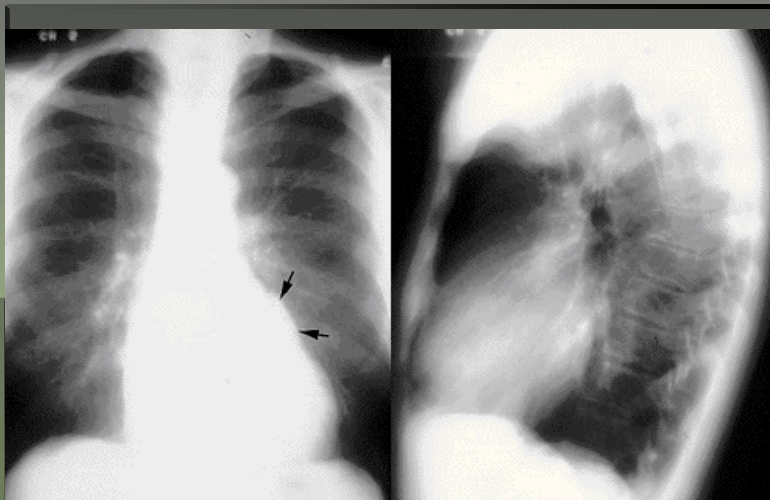
What is wrong?



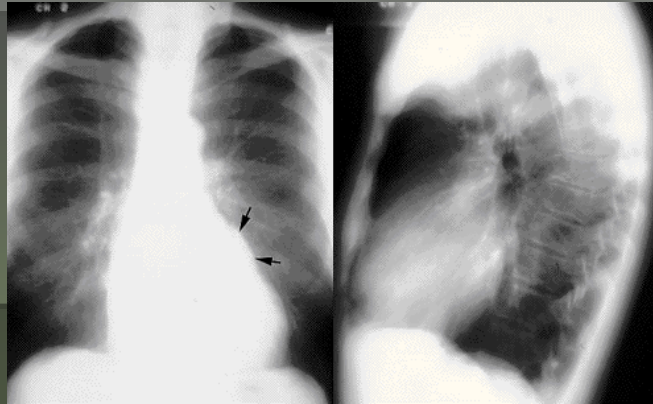
- Left Ventricular Hypertrophy



What do you notice?



Left ventricle enlargement -> left
atrial mitral stenosis



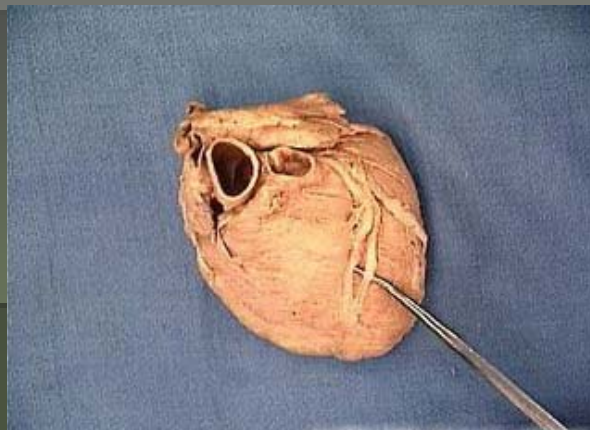
What is this?



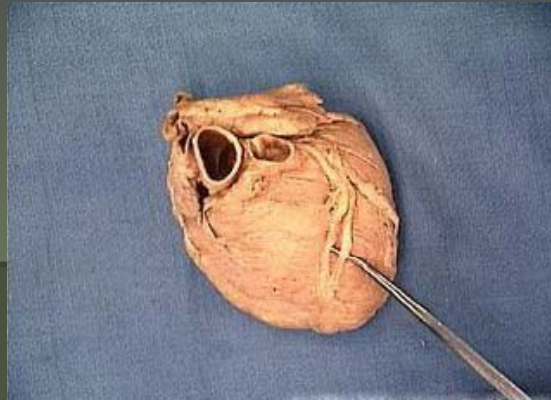
Mitral Valve (as seen from left atrium)



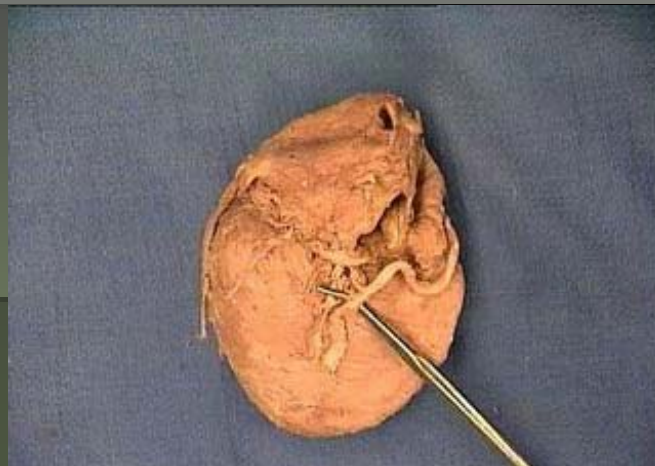
Named the raised vessels



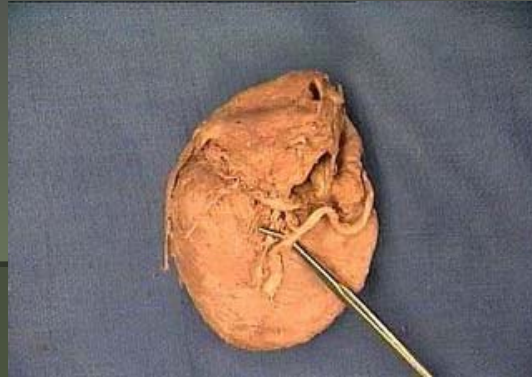
Great Cardiac Vein and Anterior Descending Interventricular Artery



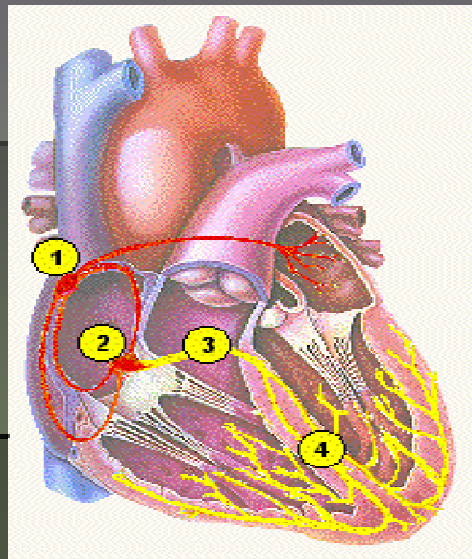
Named the raised vessel



Posterior Interventricular artery



Label each number

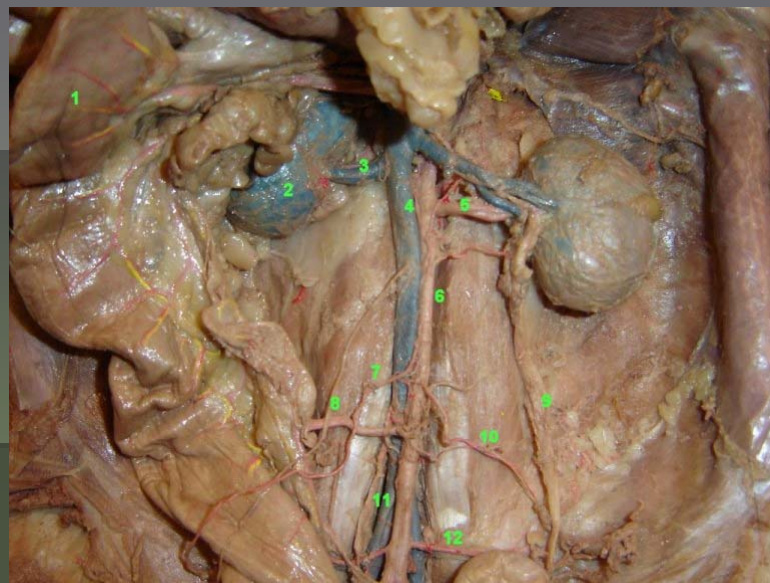
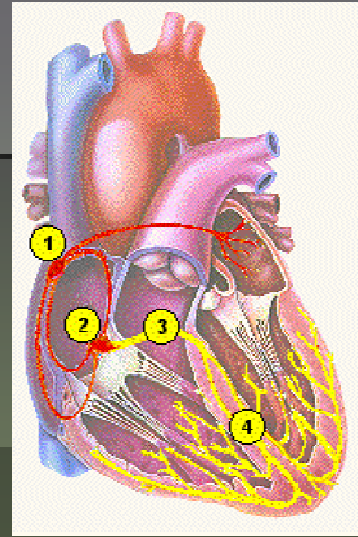


1- SA Node

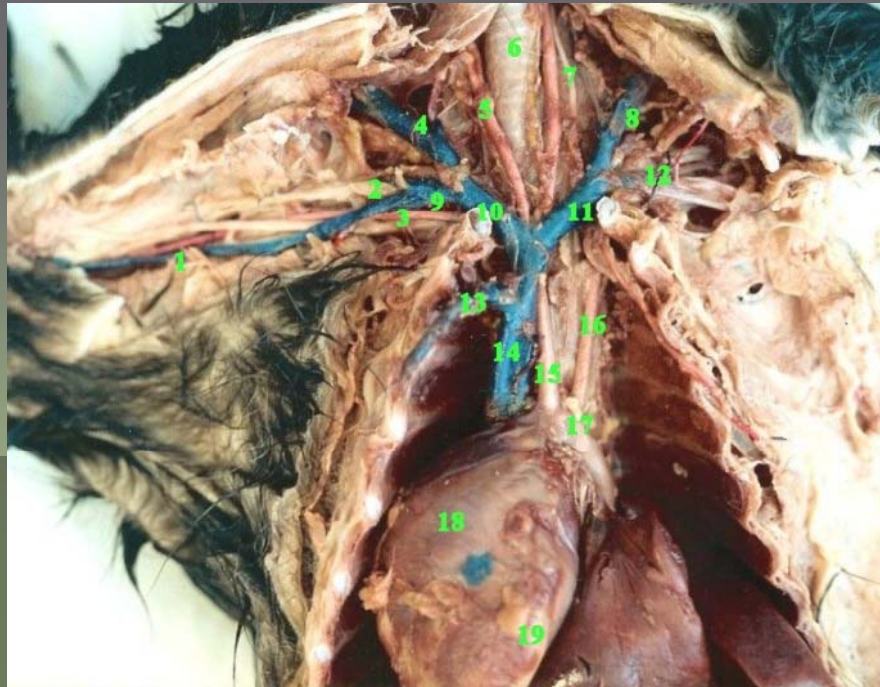
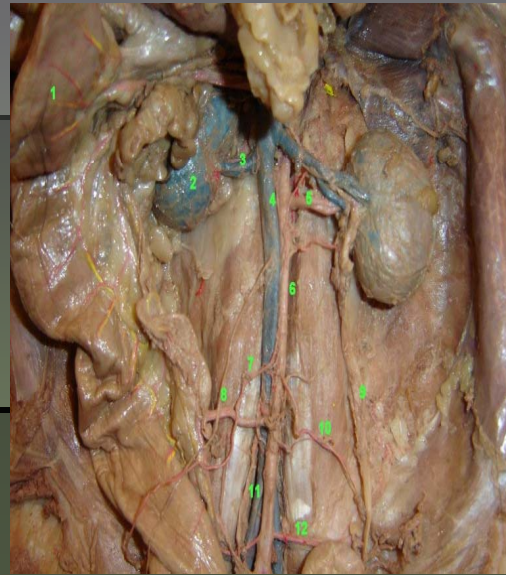
2- AV Node

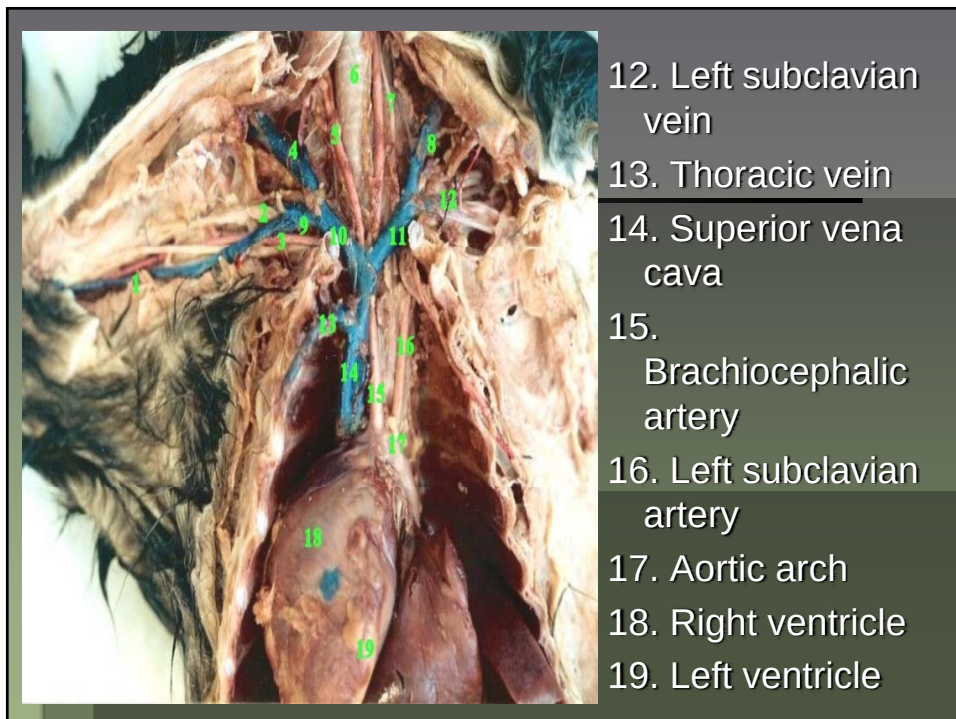
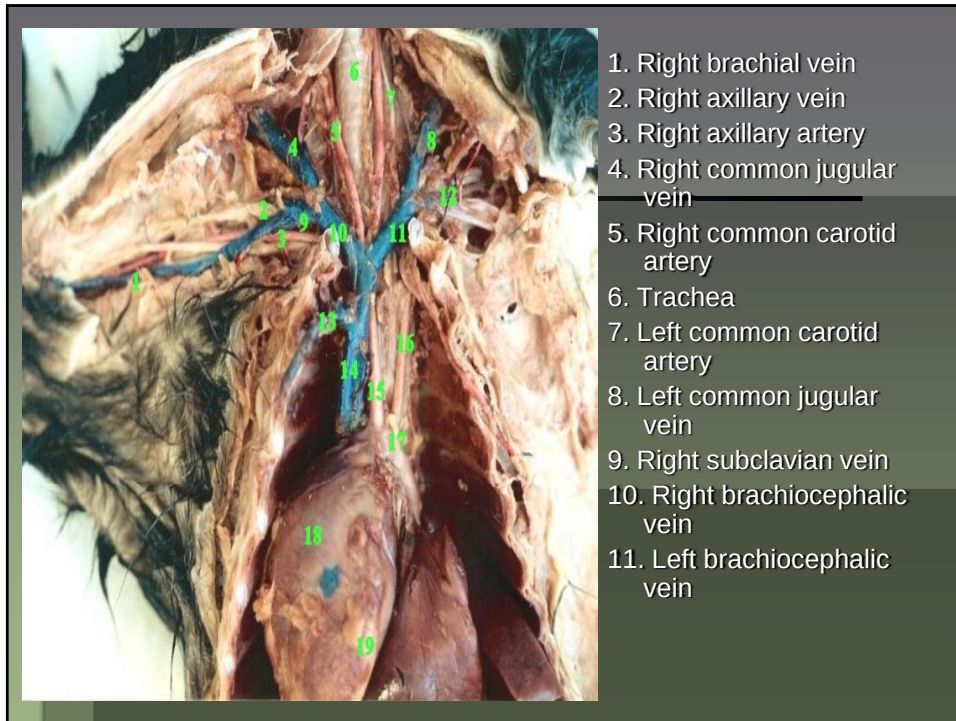
3-Common AV Bundle

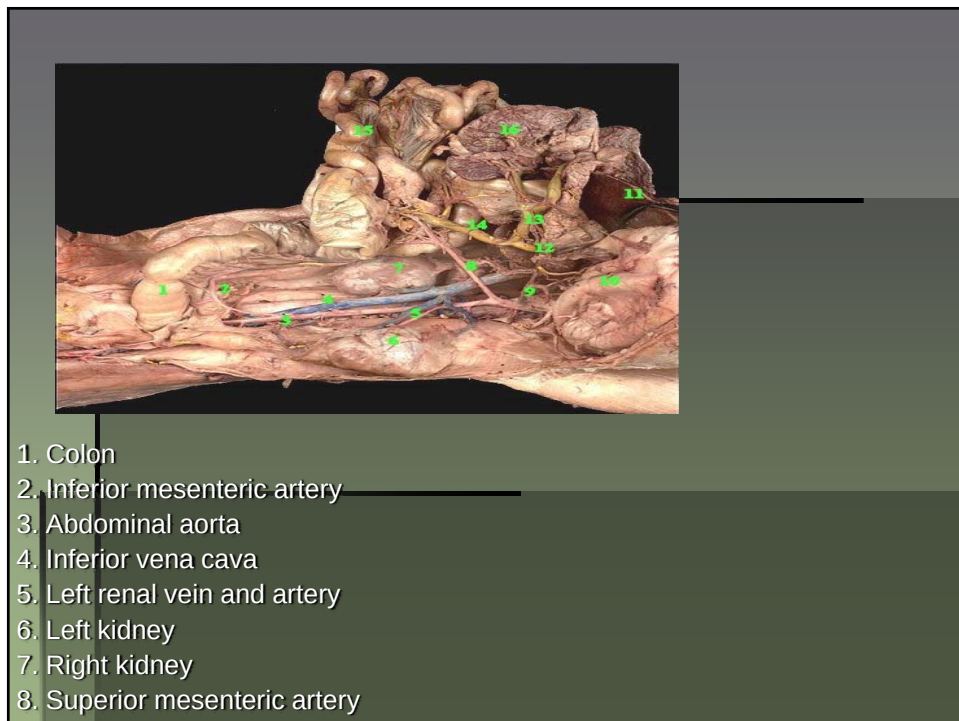
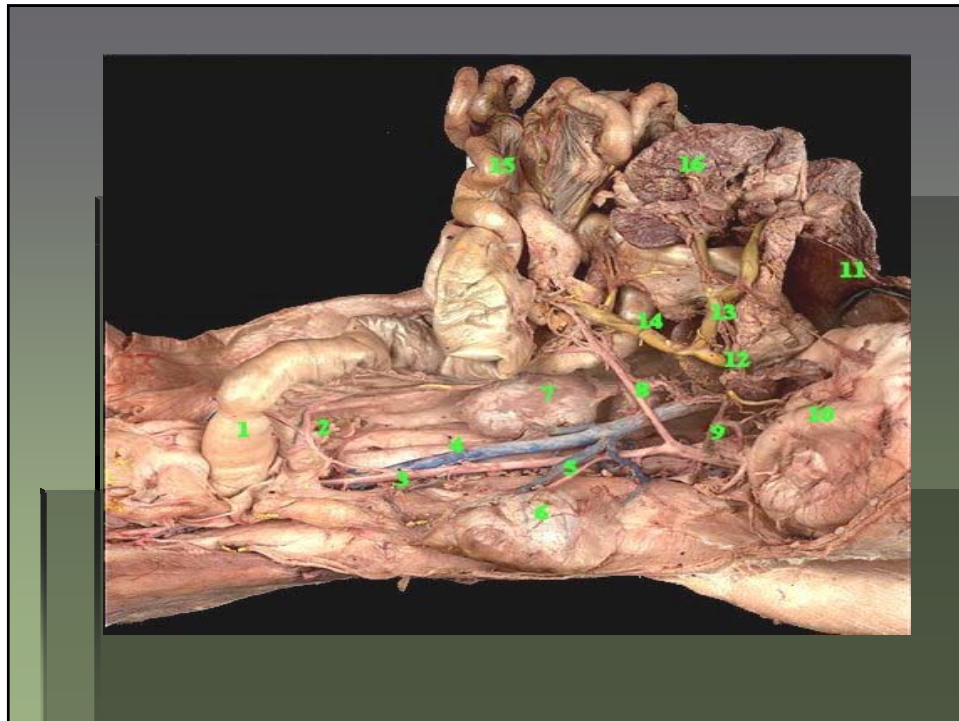
4- Bundle Branches



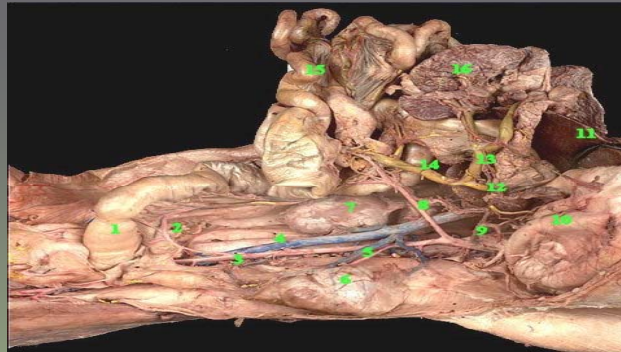
- 1 Colon
- 2 Right kidney
- 3 Right renal vein
- 4 Inferior vena cava
- 5 Left renal artery
- 6 Abdominal aorta
- 7 Right testicular artery
- 8 Inferior mesenteric artery
- 9 Left ureter
- 10 Left testicular artery
- 11 Right common iliac vein
- 12 Left iliolumbar artery



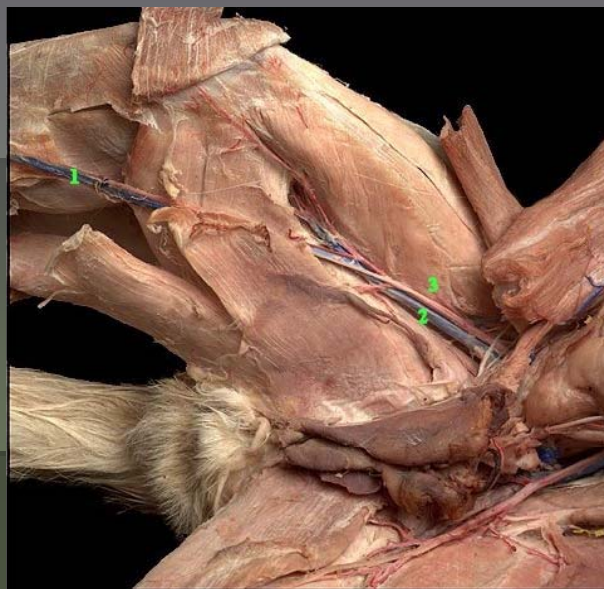


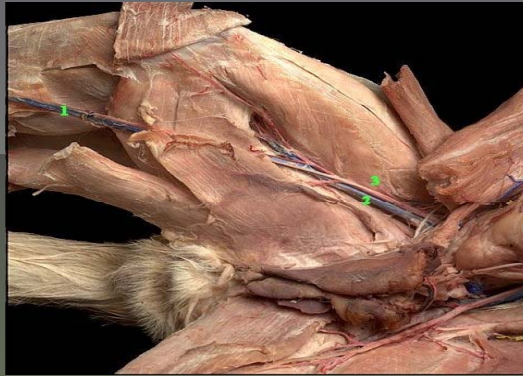


1. Colon
2. Inferior mesenteric artery
3. Abdominal aorta
4. Inferior vena cava
5. Left renal vein and artery
6. Left kidney
7. Right kidney
8. Superior mesenteric artery

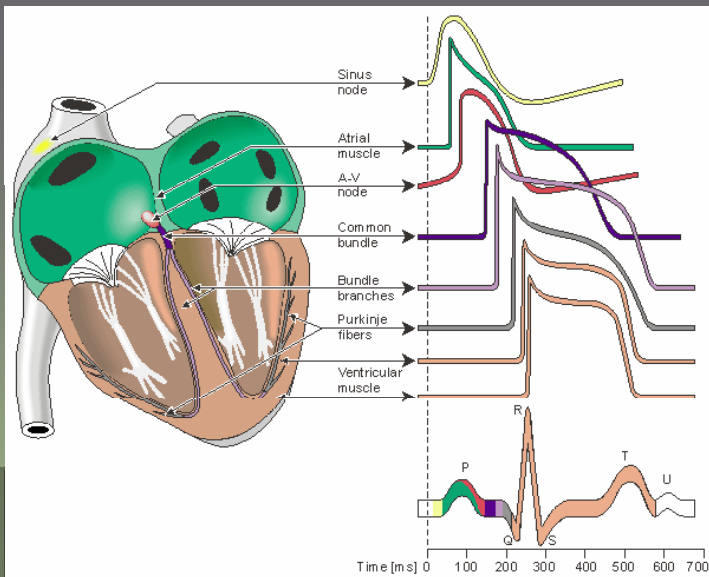


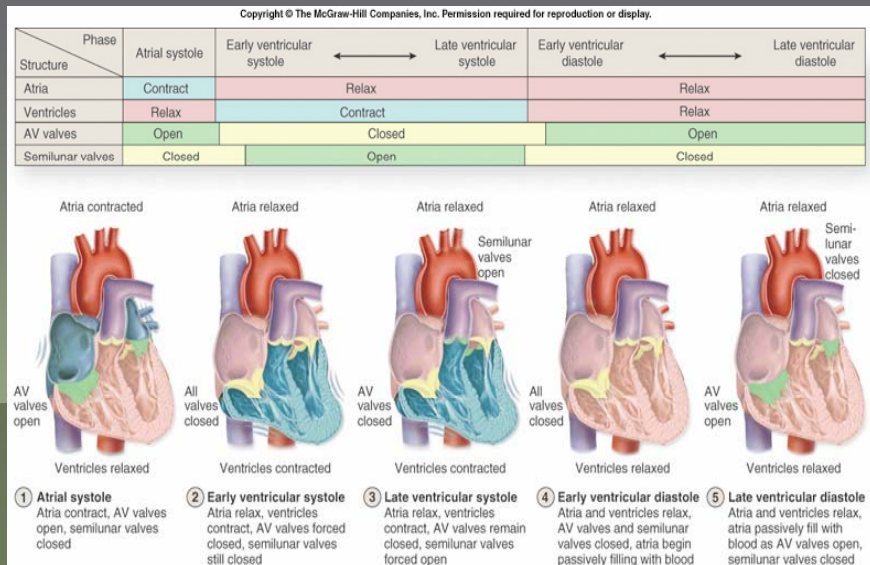
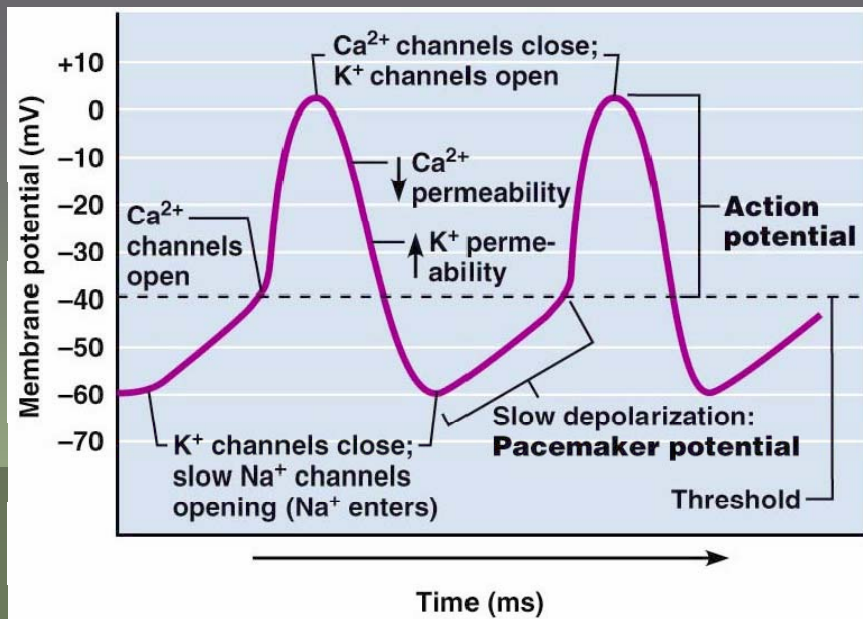
- 9. Celiac artery
- 10. Stomach
- 11. Liver
- 12. Hepatic portal vein
- 13. Gastrosplenic vein
- 14. Superior mesenteric vein
- 15. Small intestine
- 16. Spleen



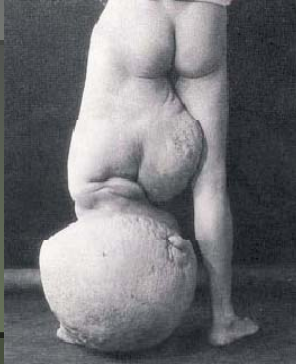


1. Right great saphenous vein
2. Right femoral vein
3. Right femoral artery





Identify Disease



- Elephantiasis

What does this picture represent?



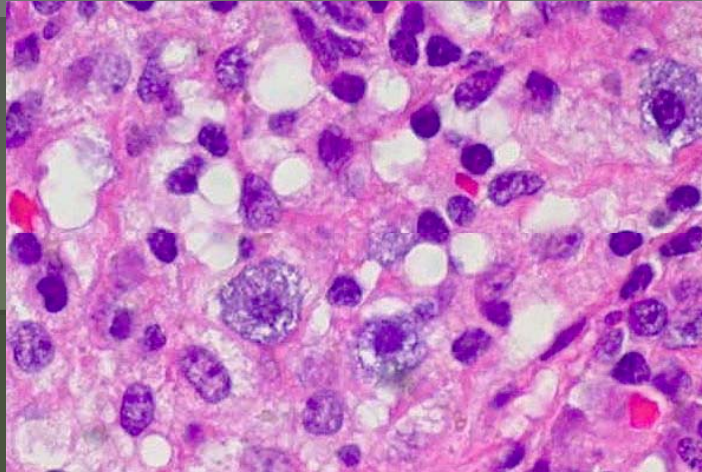
- Lymph Nodes

What is it and where is it found?



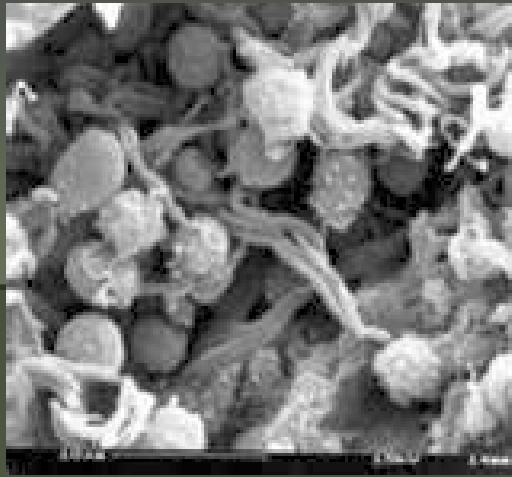
- Hassal's Corpuscle and in the Thymus

What does this picture represent?

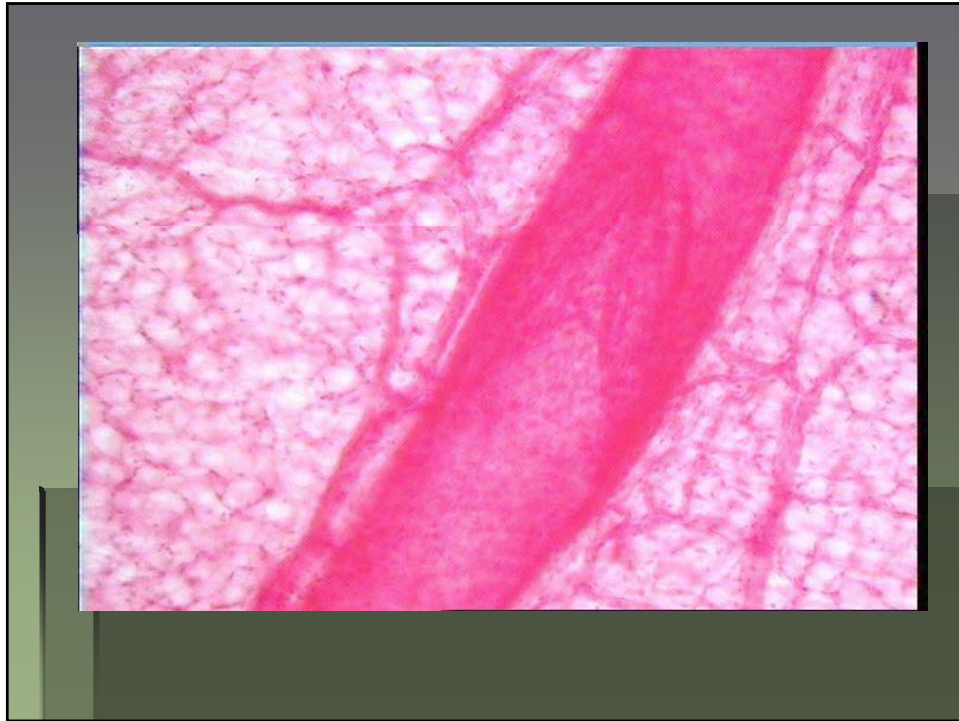


- Mast cells

What does this picture represent?

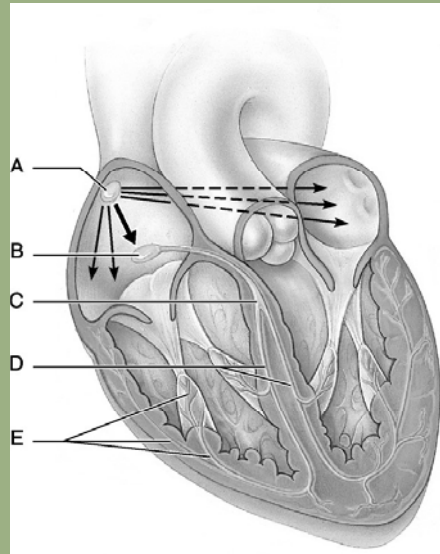


Macrophages (Kupffer cell)

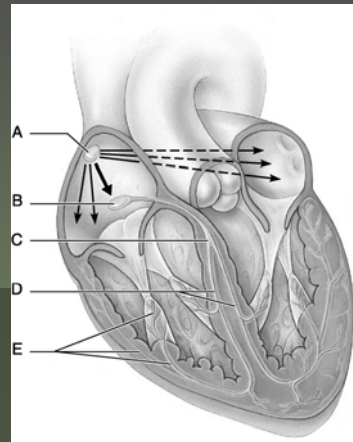


Lymphatic valve

Label the letters



- A- SA node
- B- AV node
- C- AV bundle
- D- Bundle branches
- E- Purkinje Fibers



What does each graph to the right represent and how can you tell?

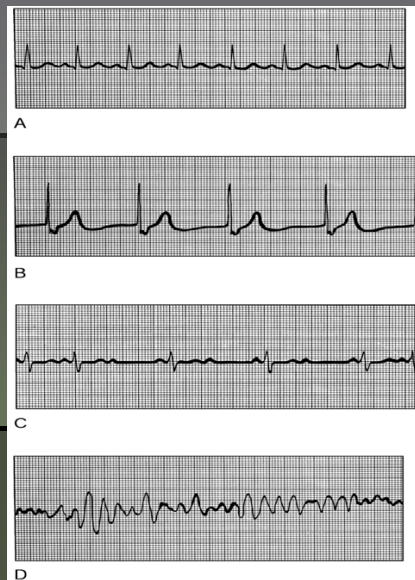


A- Normal Sinus Rhythm

B- Junctional Rhythm (SA node is non-functional, P waves absent, paced by AV node @40-60 bpm)

C- Second Degree Heart Block (Some P waves are not conducted through AV node, more P waves than QRS are seen)

D- Ventricular Fibrillation (chaotic irregular ECG deflections)



Equation for Cardiac Output?

$$CO = HR \times SV$$

Equation for Stroke Volume?

$$SV = EDV - ESV$$

(EDV= End diastolic volume)

(ESV = End Systolic volume)

What is the equation for Mean Arterial Pressure?

$$\text{MAP} = \text{DP} + \text{PP}/3$$

$$(\text{PP} = \text{SP} - \text{DP})$$