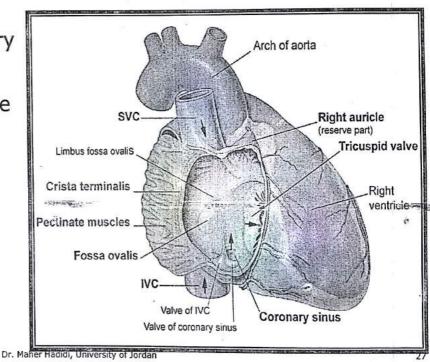
- Receives venous blood from whole body by
 - 1. SVC from upper 1/2.
 - 2. IVC from lower 1/2.
 - 3. Coronary sinus (coronary vein) from the heart itself.
- Send blood to right ventricle by Tricuspid valve.

Has 2 walls:

- Anterior wall, rough.
- Pectinate muscles.
 - · Crista terminalis.
- Posterior wall, smooth
 - · Fossa ovalis.
 - · SA Node.

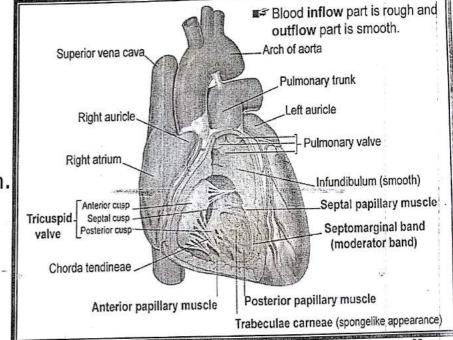
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Interior of right Atrium



Interior of right Ventricle-1

- Receives blood by Tricuspid valve.
- Send blood to both lungs via Pulmonary valve.
- Wall thicker than right atrium.



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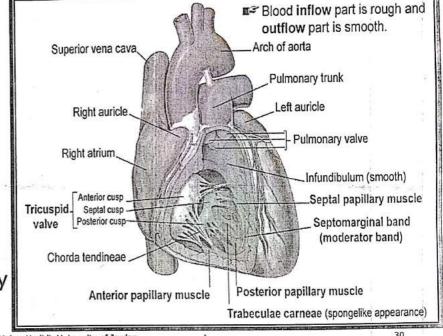
29

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Interior of right Ventricle-2

Has 2 walls:

- > Anterior wall (inflow part). Rough with a network of projecting cardiac muscle bundles. e.g.
 - · Papillary muscles.
 - Septomarginal band.
- Posterior wall, (outflow part) mostly rough and smooth in part, e.g.
 - Infundibulum of pulmonary artery.



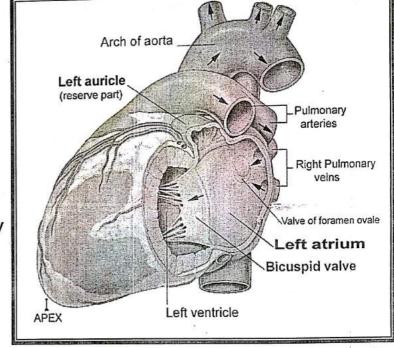
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Left atrium

- Form base of the heart.
- Receive blood by:4 pulmonary veins.
- Send blood by: Bicuspid valve to the left ventricle.
- Ant. Wall: Rough, especially its auricle.
- Post. Wall: Smooth.

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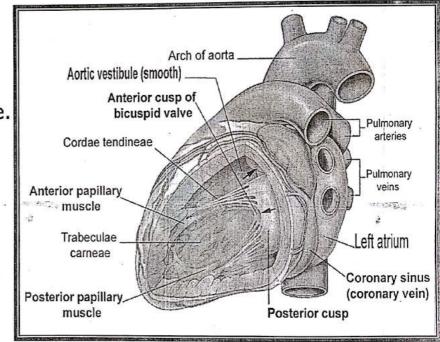
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31

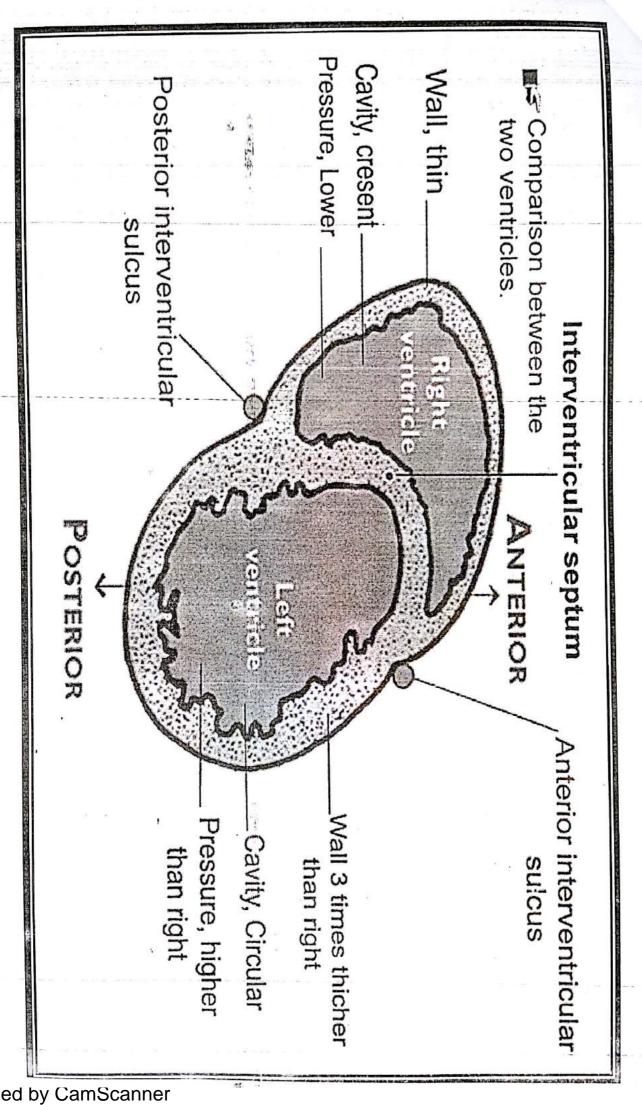
Left ventricle

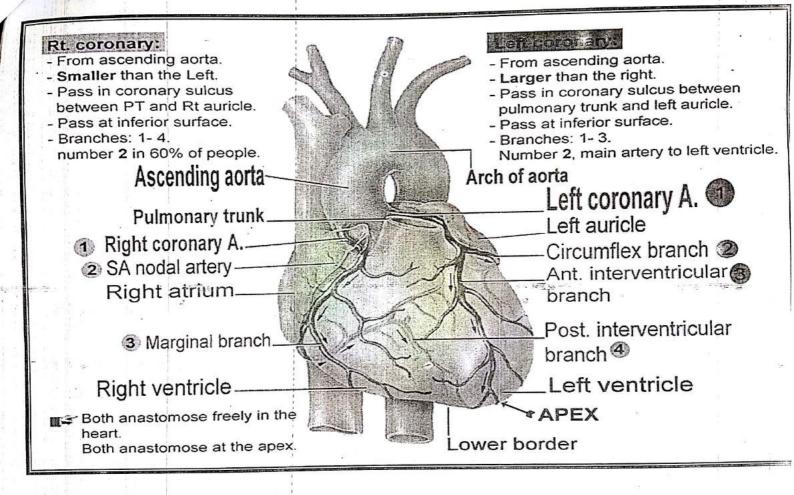
- > Main chamber of the heart.
- > Form apex of the heart.
- Receive blood by: Bicuspid valve
- Send blood by: Aortic valve.
- > Has thicker wall.
- Ant. Wall (septum): Smooth in part.
 - · Aortic vestibule.
- Post. Wall: Rough.
 - Trabeculae carneae.
 - · Papillary muscles.

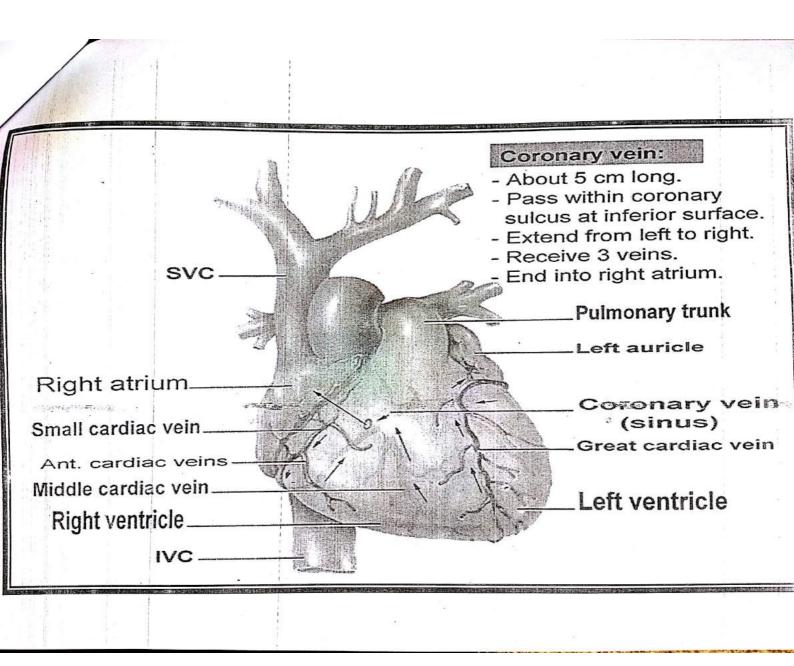
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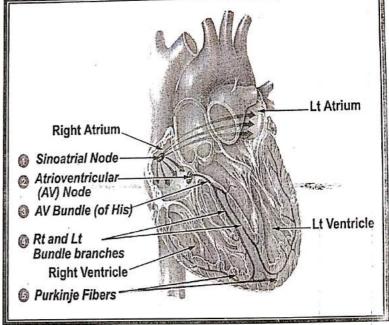






Cardiac conduction System

- A network of a modified cardiac muscle fibers specialized in conduction only.
- It is autorhythmic, it constantly initiates and coordinates atrial and ventricular muscle contraction.
- Insulated from myocardium by a sheath of connective tissue.
- Establishes a unidirectional pathway of excitation signals and contraction.
- Organized into 4 basic components:



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Sinuatrial node

Lies in the right atrium at the terminal end of crista terminalis close to the end of the SVC.

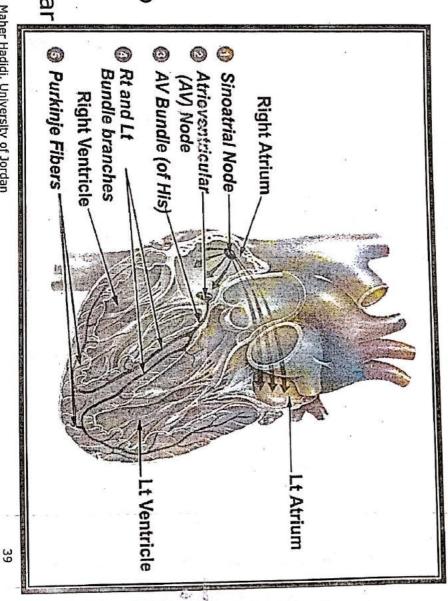
It initiates excitation signals that spreads to all atrial muscles

sympathetic stimulation and Impulses rate accelerated by slowed by vagal stimulation.

Atrioventricular node

At the inferior end of the muscles and transmits them to the AV bundle. interatrial septum. Collect impulses from atrial

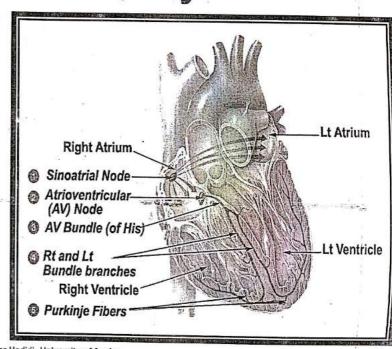
The AV bundle straddle the septum by dividing into right and left bundles within muscular part of the IV septum.



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Cardiac Conduction System

Its final fibers forms the subendocardial plexus that spreads throughout ventricles to supply ventricular muscles including the papillary muscles.



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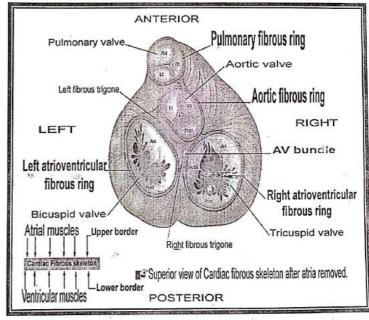
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Fibrous Skeleton of the Heart

Form of 4 dense CT rings surrounds the valves of the heart, they <u>unite with one another</u> and <u>fuse with the interventricular septum.</u>

Functions:

- Fixation site for the valves.
- Separates atrial muscles from ventricular muscles.
- Act as electrical insulator between atrial and ventricular muscles.



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