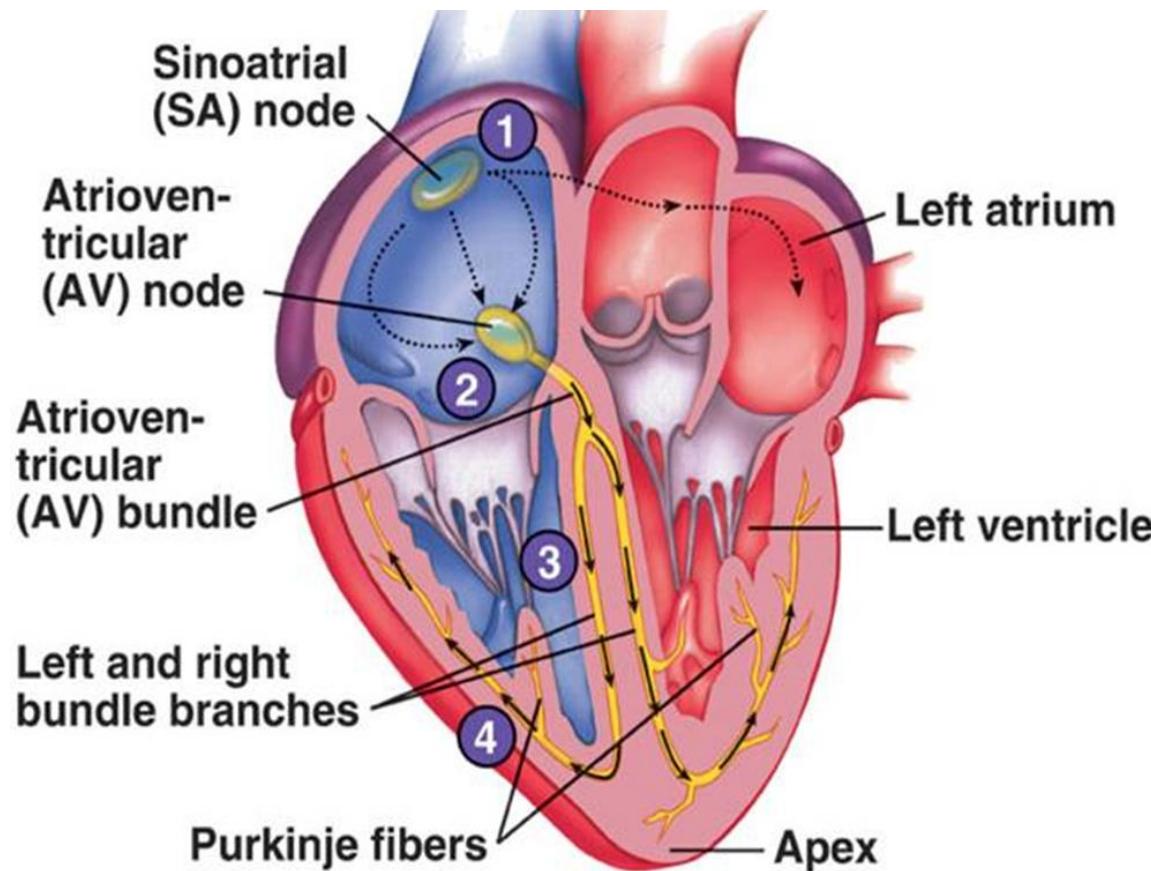


COMPONENTS OF CONDUCTIVE SYSTEM

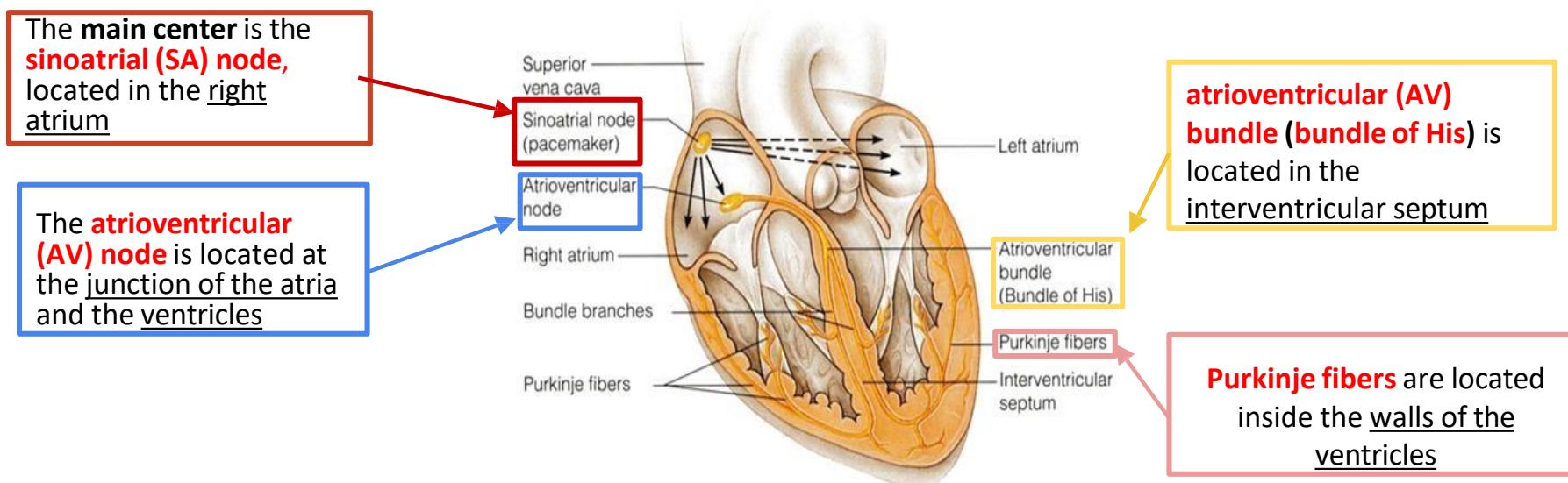
- SA node
- Inter-nodal pathways
- A-V node
- A-V bundle
- Right bundle branch
- Left bundle branch
- Purkinje fibers

COMPONENTS OF CONDUCTIVE SYSTEM



Conduction system of the heart

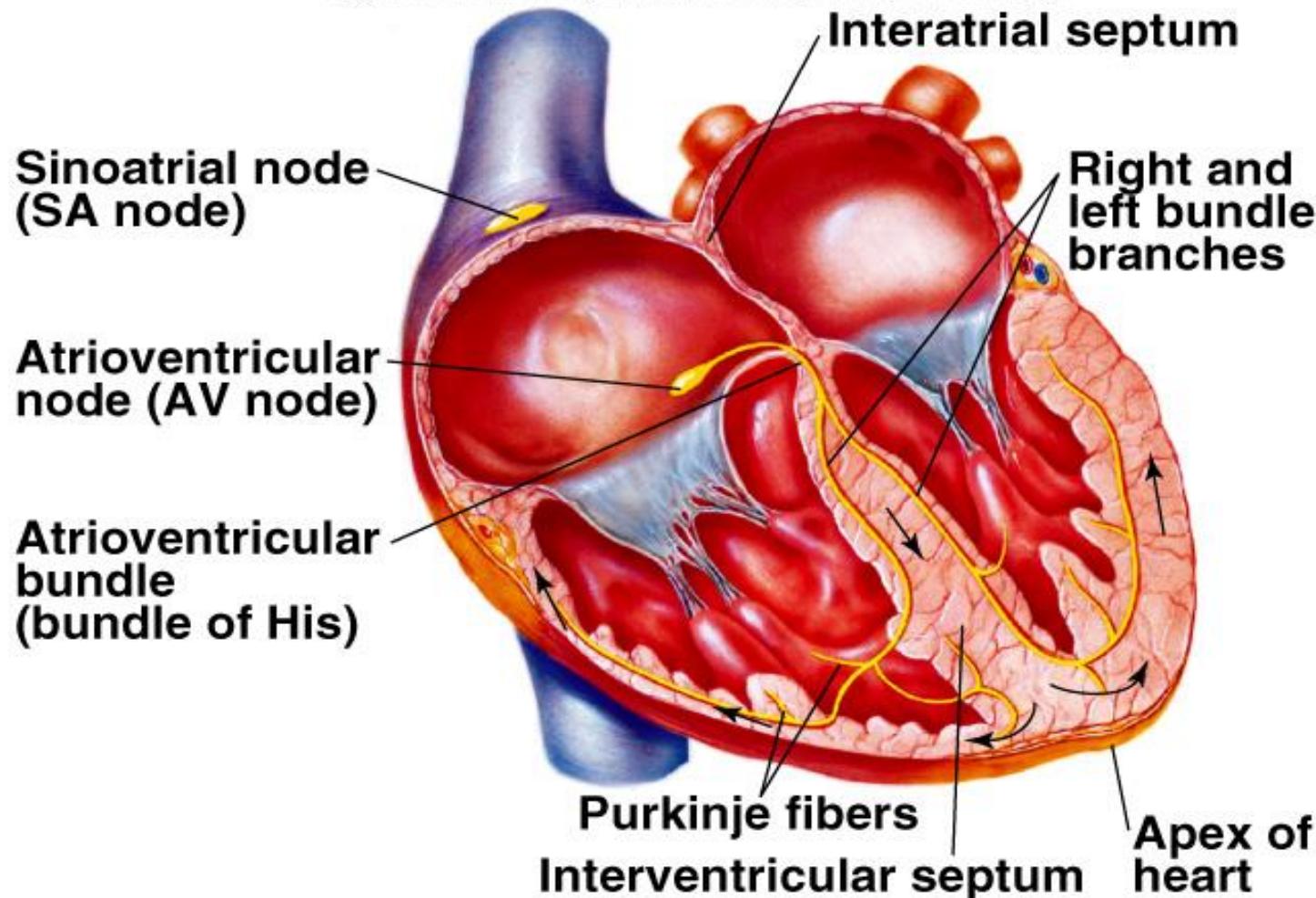
- The **beating of the heart** is regulated by the intrinsic conduction (nodal) system.
- Its function is to ensure that the chambers of the heart contract in the proper rhythm and sequence



The SA node is called the **pacemaker** of the heart, because it generates the impulse.

Conducting Tissues of the Heart

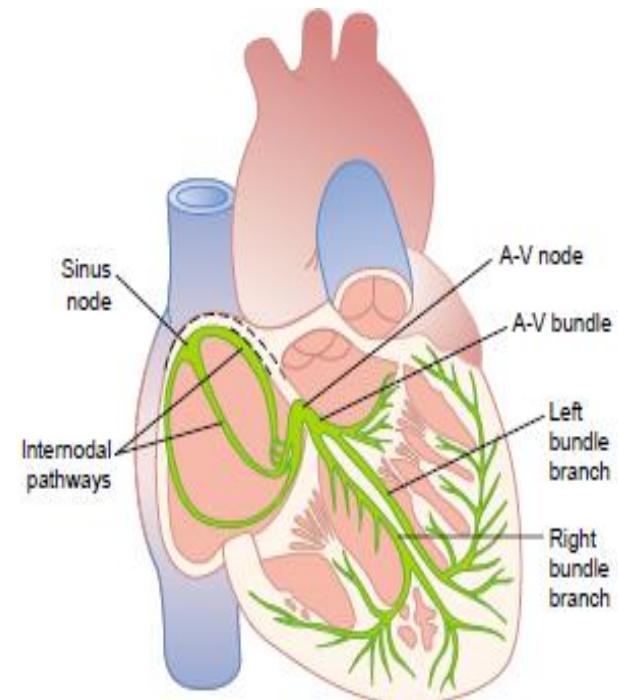
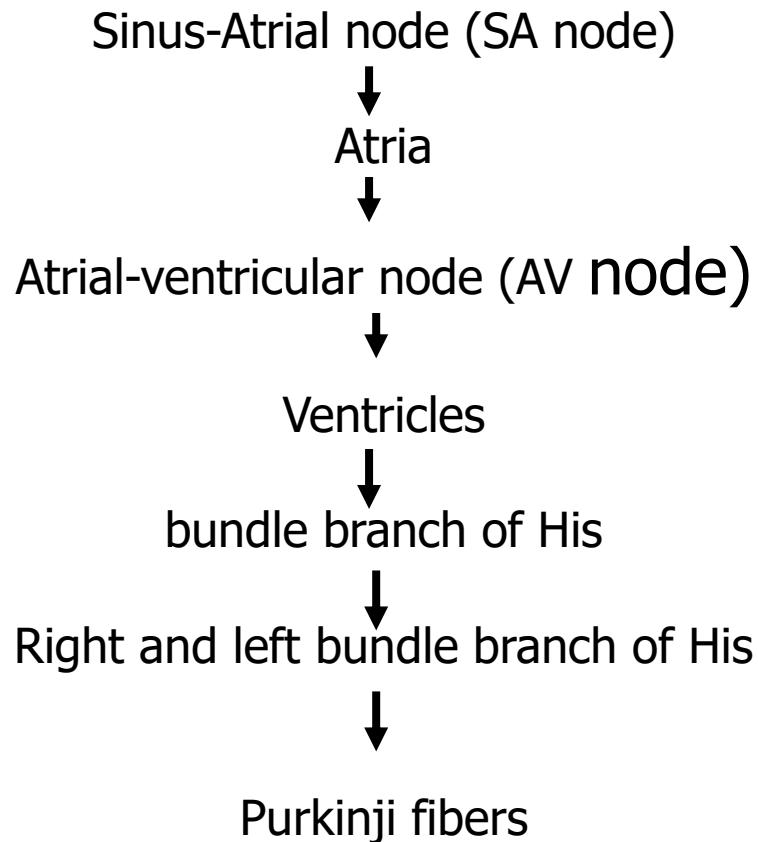
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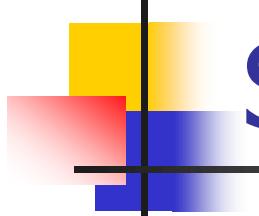


It has a special
center for generating
chemical electrical
impulses to cause
chemical contraction
of the heart muscle.

Conducting Tissues of the Heart

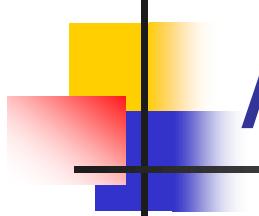
Sequence of excitation





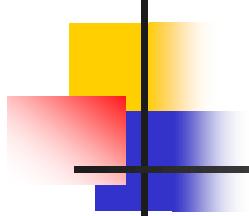
SA node

- SA node is the **pacemaker of the heart**.
- It is located in the **superior wall of the right atrium**
- **Responsible for** contraction of the heart.



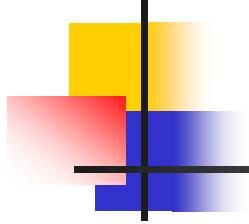
AV node

The AV node is located in the posterior wall of the right atrium immediately behind the tricuspid valve.



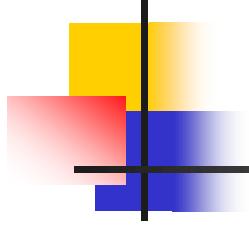
Right and Left Bundle Branches

- Bundle of His splits into two branches which are called right and left bundle branches that lie on the respective sides of the ventricular septum.
- From the time the cardiac impulse enters the bundle branches until it reaches the terminations of Purkinje fibers



Purkinje fibers

- Purkinje fibers are very large fibers.



THANK YOU