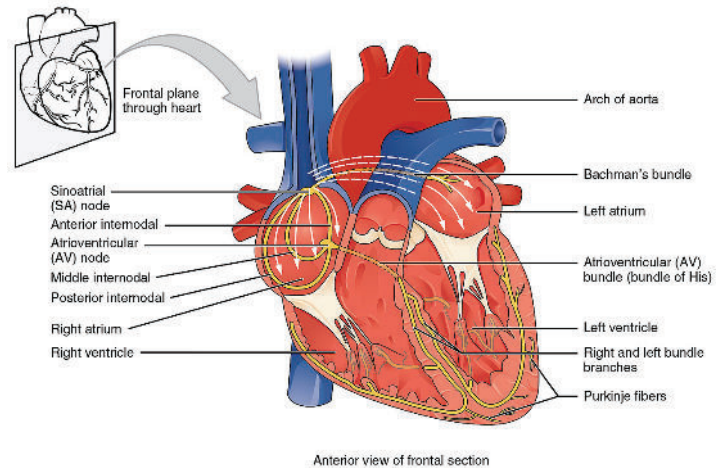


ELECTRICAL CONDUCTION OF THE HEART

Electrical Conduction

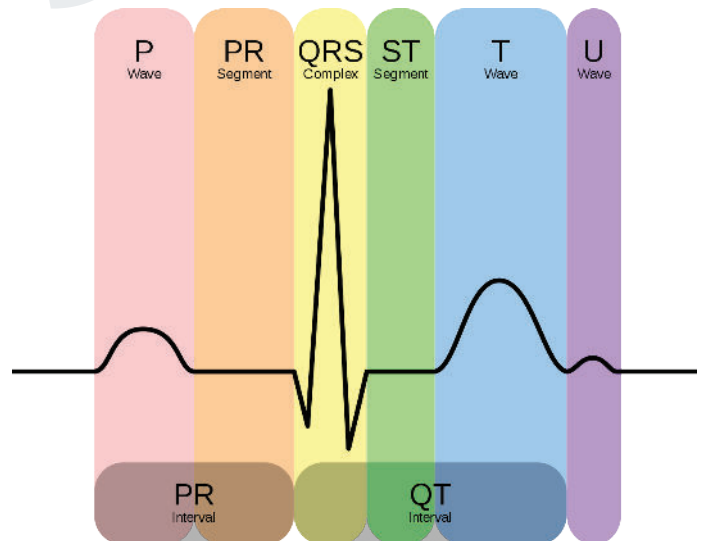
- 1) Sinoatrial node action potential sent across both atria (atrial systole)
- 2) Atrioventricular node receives action potential (slight delay for complete atrial systole)
- 3) Action potential sent down ventricular conduction pathway
- 4) Bundle of His sends action potential across left & right bundle branches (to respective ventricles)
- 5) Action potential sent to Purkinje fibers to rest of ventricles for simultaneous contraction



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EKG Wave

- **P Wave** - Atrial Systole
- **PR Interval** - Action potential from SA node to AV node (slight delay for atrial systole)
- **QRS Complex** - Ventricular Systole
- **ST Segment** - Time between ventricular depolarization and repolarization
- **QT Interval** - Time from ventricular systole (contraction) to completion of diastole (relaxation)
- **T Wave** - Ventricular diastole
- **U Wave** - Repolarization of Purkinje fibers (U Wave is not common and cannot always be seen)



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