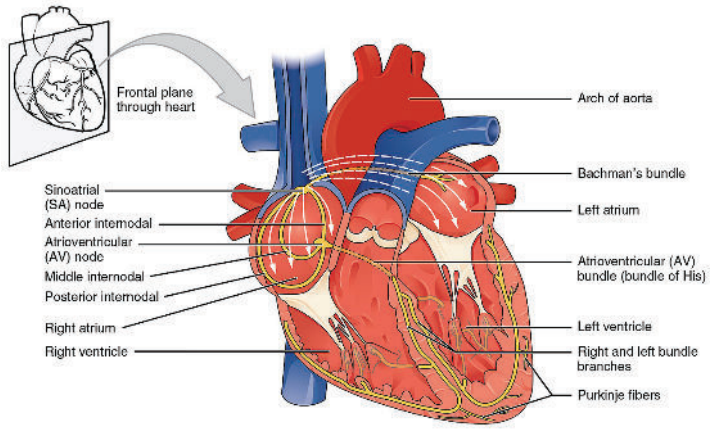
ELECTRICAL CONDUCTION OF THE HEART

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



Anterior view of frontal section

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)