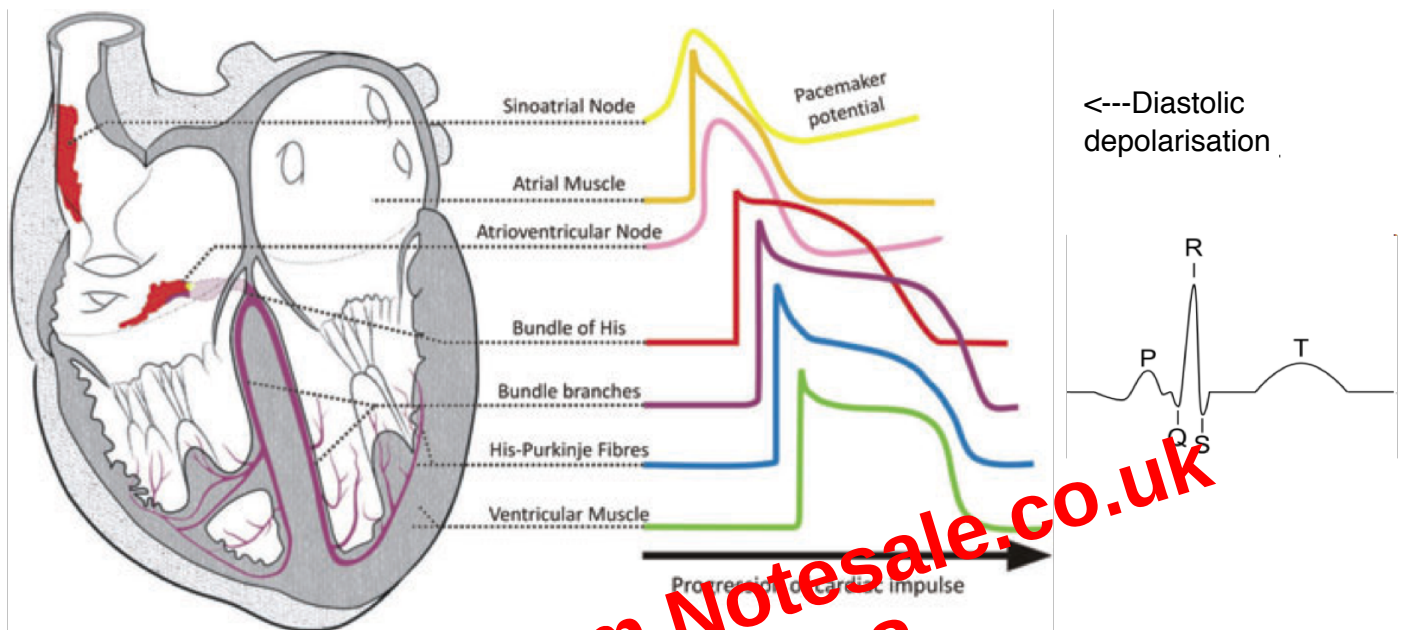


Leading pacemaker site

- **Can be multiple leading pacemaker sites** - physiological stimuli/drugs can change this
 - 'Wandering Pacemaker'
 - Clinically - cause of P wave variations (you can get an inverted P wave)
 - Generation site in SAN moves

Relationship of pacemaker potentials, other cardiac action potentials and the ECG



- SAN and ANU are slower activating than the others

Ionic basis of pacemaker potentials

- I(f) provides this depolarising stimulus by being activated by hyperpolarisation
- I(f)-mediated depolarisation (diastolic depolarisation) leads to stimulation of Voltage dependant channels and pacemaker potential generation

