



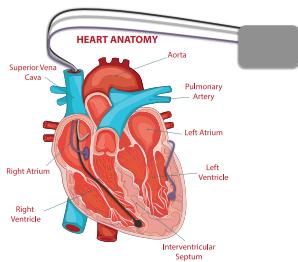
Cardiac pacemakers in medicine

Pacemakers and heart failure

Heart failure

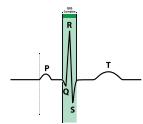


The pumping function of the heart has become inefficient, leading to breathlessness, fatigue, and ankle swelling.

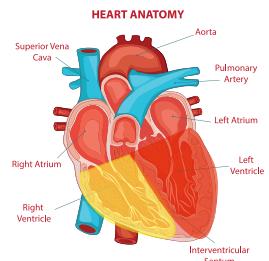


Biventricular pacemaker

Suitable for all HF?



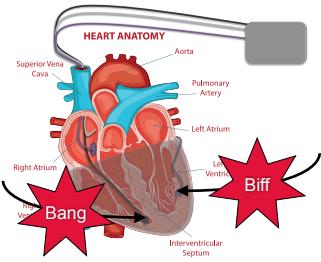
- QRS \geq 120ms
- Ejection fraction <35%



Dyssynchrony of the ventricles



Basic physics



Biventricular pacemaker

Biventricular pacing



100%

Takeaway message



Biventricular pacemakers work best
when they are pacing the ventricles
100% of the time.