



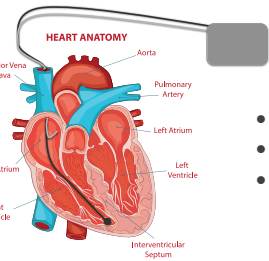
Common pacemaker problems and resolutions

Upper rate behavior

Upper rate behavior

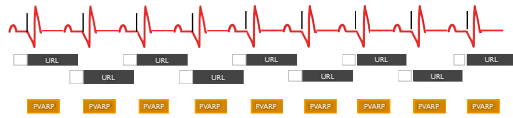


Describes the behavior of the pacemaker when the atrial rate **exceeds** the upper rate limit.



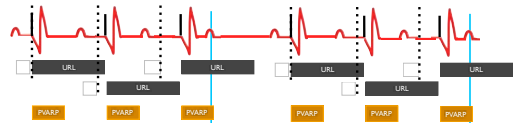
- Pacemaker URL = 130bpm
- Atrial rate < 130bpm
- Atrial rate > 130bpm pacemaker behaves differently

Atrial rate of 120 bpm



Upper rate recap

Atrial rate of 140 bpm

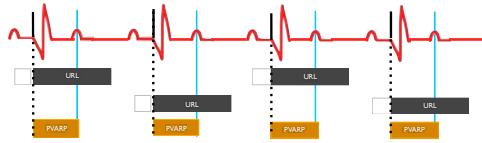


Wenckebach (Mobitz II) block



If the atrial rate gets faster?

Atrial rate of 160 bpm



2:1 Upper rate behavior

Upper rate behavior



Remember, upper rate behavior occurs when the atrial rate exceeds the **upper rate limit**.

Solution?



- Are faster heart rates appropriate?
- Increase the upper rate limit

Takeaway message



If patients complain of sudden fatigue or dizziness during more vigorous exertion — think **upper rate behavior!**
