



# Pacemaker optimization

Hysteresis

---

---

---

---

---

---

Base Rate 60 BPM

60 BPM



63 BPM



**Traditional base rate pacing**

---

---

---

---

---

---

Base Rate 60 BPM with Hysteresis 50 BPM



**Basic hysteresis**

---

---

---

---

---

---

## Hysteresis



- Encourages the intrinsic heart rate
- Can be used to reduce the amount of pacing

---

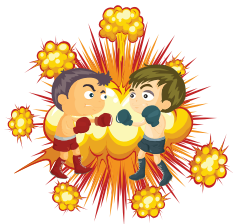
---

---

---

---

---



- Zzz zzz
- Fit people resting
- More physiological

Does it defeat the point of a pacemaker?

---

---

---

---

---

---

## Takeaway message



Hysteresis prevents unnecessary pacing during **physiological** slower heart rates. When a **pathophysiological** slowing of heart rate occurs, the pacemaker will kick in!

---

---

---

---

---

---