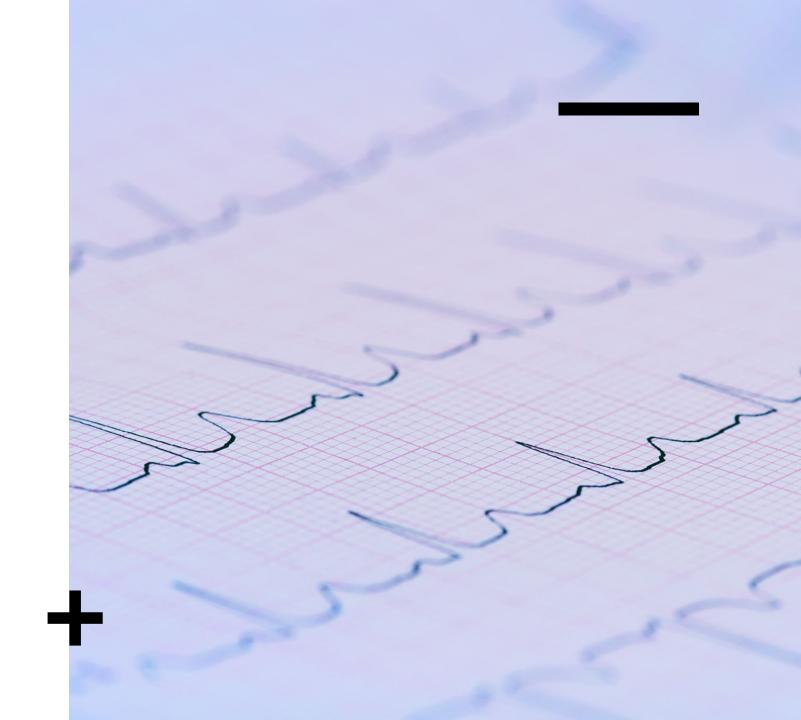
## How do pacemakers work?

By Jhan Oriach



## Different types of pacemakers

1st Position	2nd Position	3rd Position	4th Position	5th Position
Chamber Paced	Chamber Sensed	Response to Sensing	Rate Modulation	Multisite Pacing
A	А	Т	0	0
V	V	1	R	А
D	D	D		V
	0	0		D

A = atrium, D = dual (both chambers), I = inhibited, O = none, R = rate adaptive, T = triggered, V = ventricle.

- Modern pacemakers have multiple functions, but the two simplest modes are VVI and AAI
- Most common mode is DDD

## Programming pacemakers

- Pacemakers are programmed by an electrophysiology tech or cardiologist
- Pacemakers can be temporarily "reprogrammed" by placing a magnet over it
- Programming a pacemaker may be fairly simple, but it would require the use of many loops and recursions
- Some pacemakers have remote remote monitoring capabilities, which make them vulnerable to malicious tinkering

