

TEMPORARY/EXTERNAL CARDIAC PACING by Nick Mark MD

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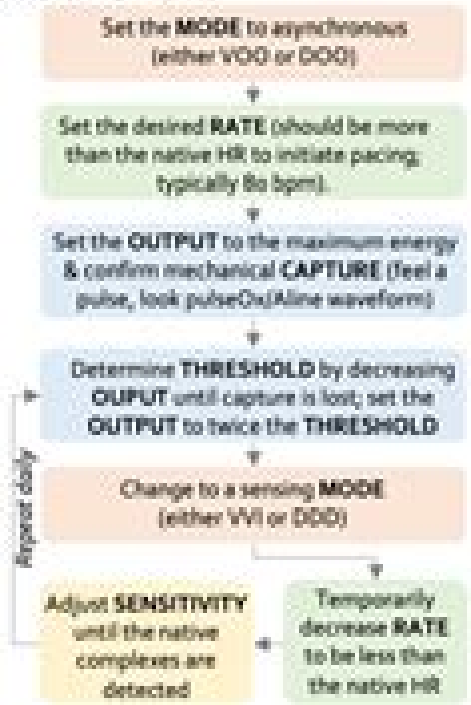
DEFINITIONS:

- **Transvenous & epicardial** pacing are temporary methods of supporting brady- & tachydyrhythmias until resolution or definitive treatment (such as a permanent implanted pacemaker) can be implanted.
- External cardiac pacing involves connecting one or more pacing electrodes (called leads) to an external pulse generator (also called an external pacer box).
- Transvenous and epicardial pacing are more reliable and more durable treatments than transcutaneous pacing. (Both are pictured, though would not be used simultaneously.)

USES:

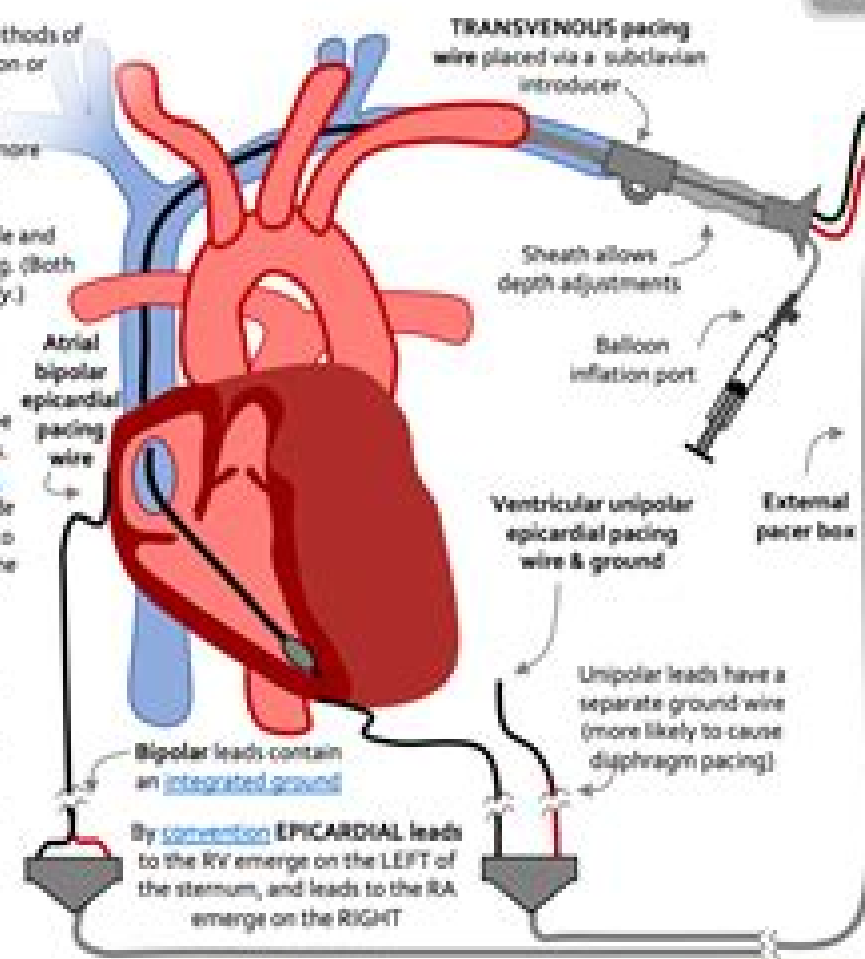
- Pacing can be used to support patients with severe **BRADYCARDIA** or **HEART BLOCK** leading to hemodynamic compromise. HB or bradycardia may be due to surgery, MI, electrolyte disturbances, toxicities.
- **OVERDRIVE PACING** is a technique for **suppressing arrhythmias**, such as ventricular tachycardia or Torsades de pointes by selecting a rate faster than the arrhythmia to overdrive suppress it then decreasing the rate once the dysrhythmia is suppressed.

INITIATING PACING:



Initiating emergency pacing

Setting the pacer as a backup



Lights flash to indicate when **SENSING** and **PACING** occur

RATE
determines how often the pacer will fire

OUTPUT
determines how much energy is delivered to each pacing lead; threshold is how much energy is required to trigger depolarization

SENSITIVITY
determines how much current must be detected to identify a depolarization

MODE
Determines which leads are paced and how the pacer responds to native cardiac activity

VVI		
CHAMBER PACED	CHAMBER SENSED	RESPONSE TO SENSING
A - atrial	A - atrial	I - inhibited
V - ventricle	V - ventricle	T - triggered
D - dual	D - dual	D - dual
	O - none	O - none

MODE	DESCRIPTION	PROs	CONs
VVI	Common mode used via transvenous pacer wire	On demand V pacing; good for backup	Loss of atrial kick Difficult to assess ST segments with V pacing
VOO	Can be used when sensing is not reliable	Resistant to interference	Loss of atrial kick Risk of R on T
DDO	Common mode for pacing via epicardial pacing wires	Maintains atrial kick	Risk of endless loop tachycardia
DDO	Can be used when sensing unreliable	Maintains atrial kick & resistant to interference	Risk of R on T phenomenon

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Advanced Functions Pacing Guide

Patrick Vollmar



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