

## **Learning Objectives**

#### 1. By the end of Case 7 be able to discuss

- · Asymptomatic vs symptomatic bradycardia
- · Signs and symptoms of symptomatic bradycardia
- · Intervention agents and sequences to use
- Recognition criteria for heart blocks: *Ist*, *2<sup>nd</sup>* (types *I and II*), and *3<sup>rd</sup> degree*
- Pathology of conduction system in heart blocks

## **Learning Objectives**

#### 2. By the end of Case 7 be able to discuss

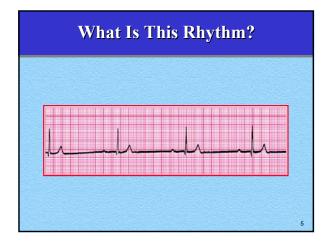
- Significance of bradycardia in AMI patients
- Significance of RV infarction plus bradycardia
- Atropine pharmacology: why atropine helps some heart blocks and not others
- Set up, start, troubleshoot *transcutaneous* pacing

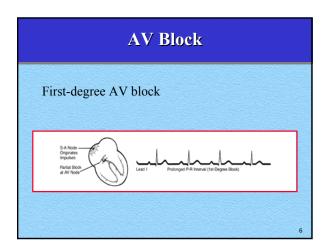
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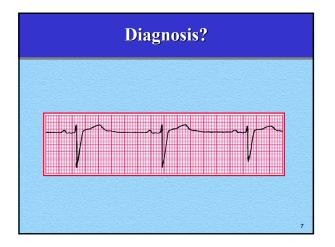
## **Drugs to Learn**

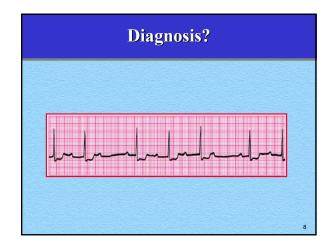
- The actions, indications, administration, and precautions for these drugs and therapies:
  - Atropine
  - Dopamine
  - Epinephrine
  - Transcutaneous pacing
  - Isoproterenol (rarely used)

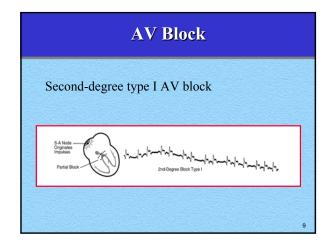
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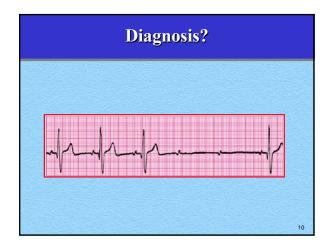


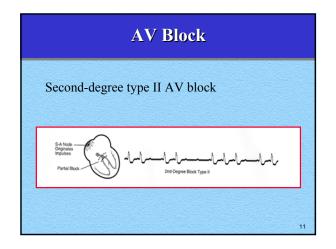


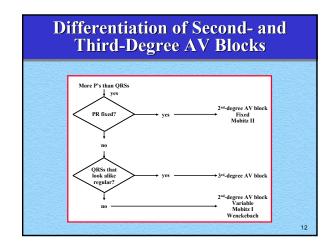


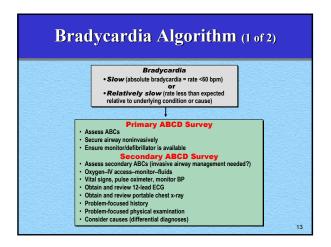


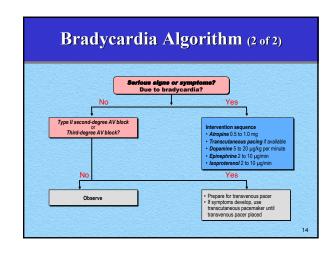


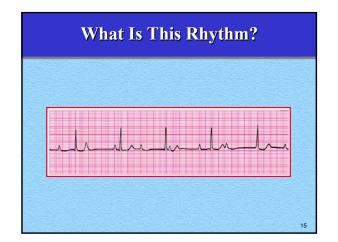


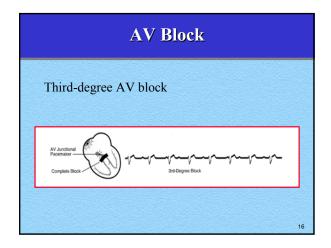


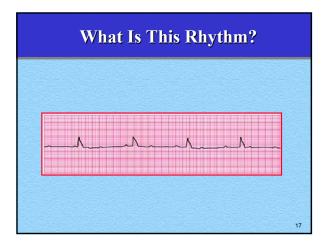


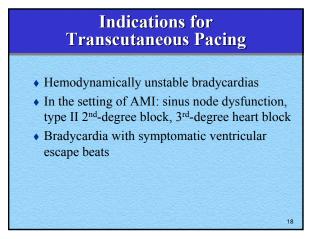


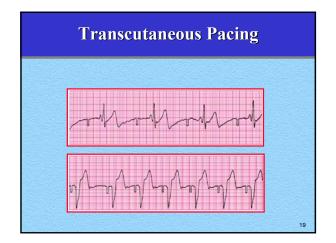


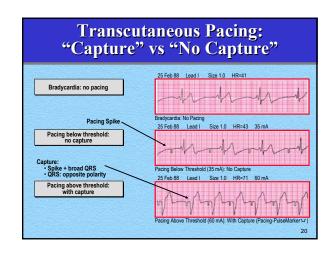












# Pulse Generators for Transvenous Pacing

### Characteristics

- Variable output in milliamps
- Fixed versus demand mode
- Variable rate setting
- Firing and sensing indicators
- Familiarize yourself with the equipment!

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