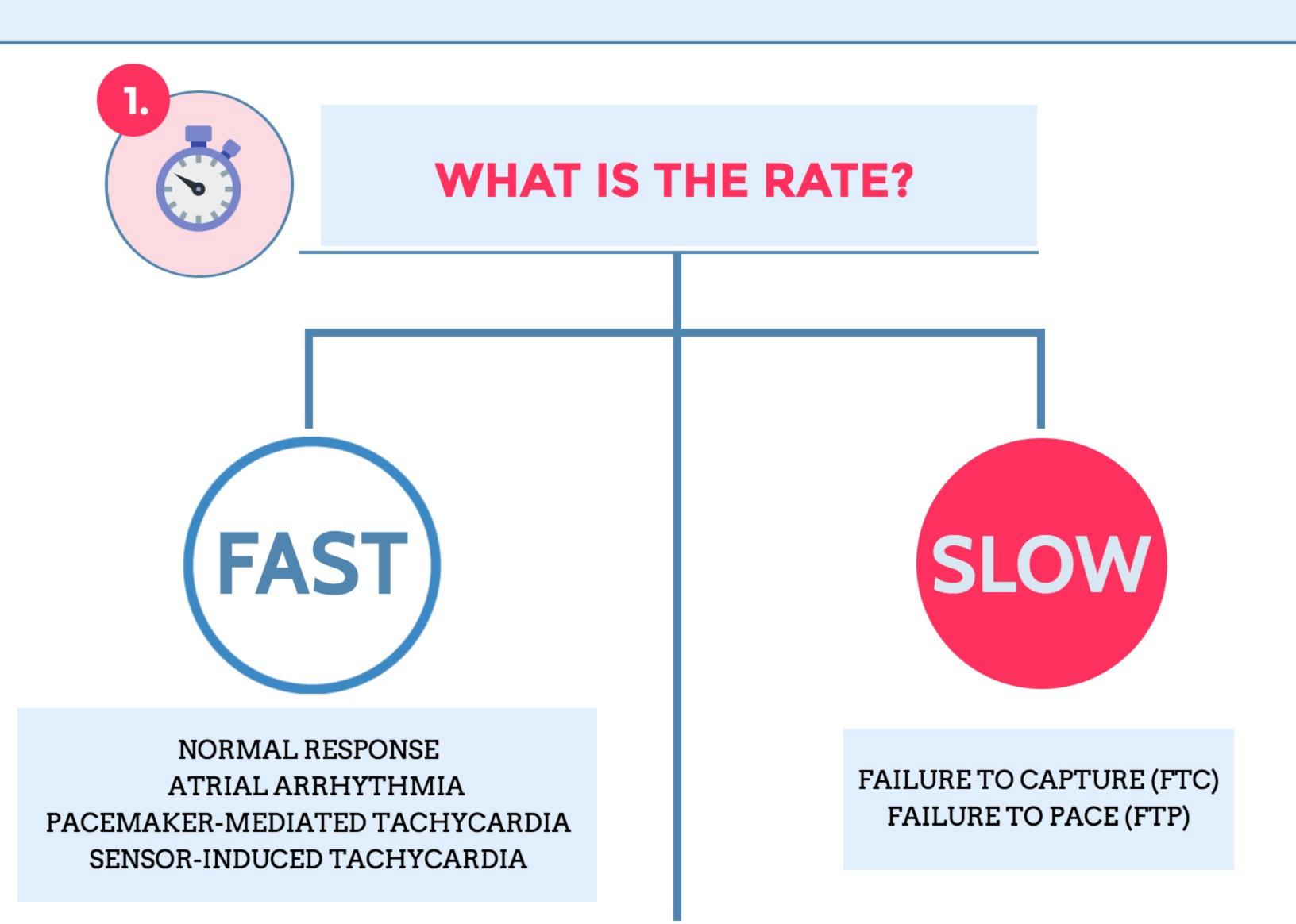
### ED APPROACH TO



### PACEMAKER ECGs

### GOLDEN RULE: ALWAYS GO THROUGH YOUR USUAL ECG APPROACH EVEN FOR PACED ECGs



#### NORMAL



# IS THERE A P WAVE OR QRS COMPLEX FOLLOWING EVERY PACER SPIKE?

#### DDx: FTC

- hardware problem (lead #/inadequate contact, battery issue)
- exit block (increased threshold at electrode attachment site)
- medical issue (e.g. electrolytes, drugs, MI)

NO

FAILURE TO CAPTURE (FTC)

YES



# ARE PACER SPIKES SEEN THROUGHOUT WITH NO SINUS PAUSES OR ASYSTOLE?

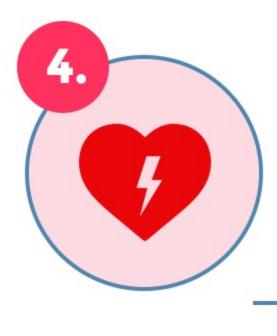
#### DDx: FTP

- hardware problem (e.g. pulse generator, battery or insulation malfunction)
- over-sensing (e.g. sensing myopotentials, other chambers or T-waves)

NO

FAILURE TO PACE (FTP)

YES



## ARE THERE PACER SPIKES DURING OR FOLLOWING NATIVE CARDIAC ACTIVITY?

#### DDx: FTS/UNDER-SENSING

- hardware problem (e.g. lead #/inadequate contact, insulation problem)
- low native voltages

YES

FAILURE TO SENSE (FTS) OR UNDER-SENSING

NO

APPROPIATE PACING
ON ECG