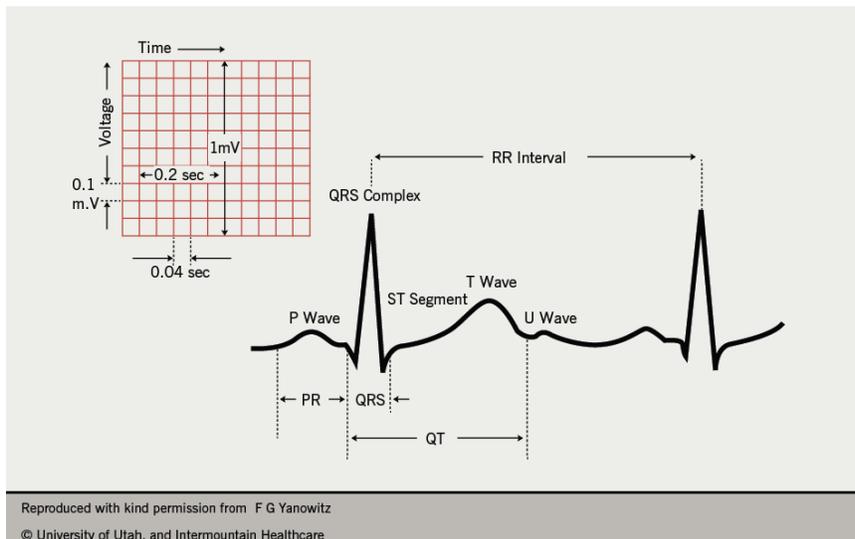
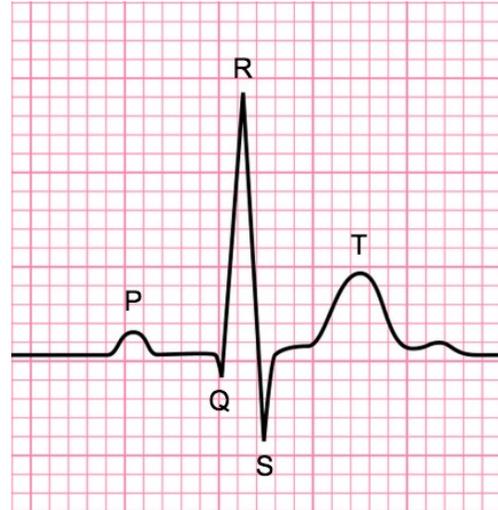
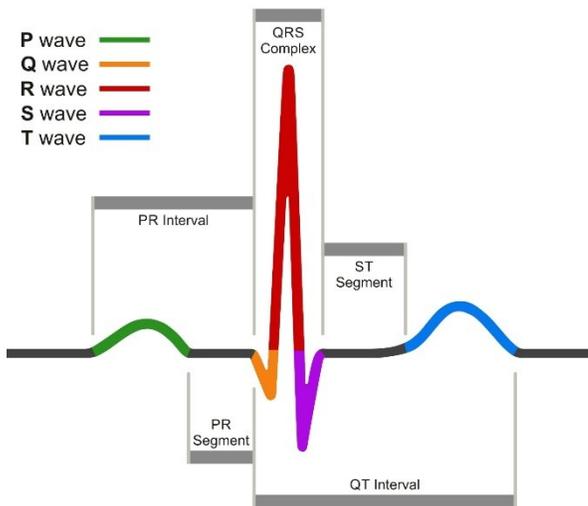


# Deanna Braden

The EKG waveform consists of:

- P Wave: Represents atrial depolarization
- QRS: Represents ventricular depolarization
- T Wave: Represents ventricular repolarization



- 1 small square on an ECG trace (at 25 mm/s speed) = 0.04 s
- PR interval 0.11–0.20 seconds (3–5 small squares)
- QRS complex 0.06–0.10 seconds (1.5–2.5 small squares)
- QT interval 0.36–0.44 (9–11 small squares).

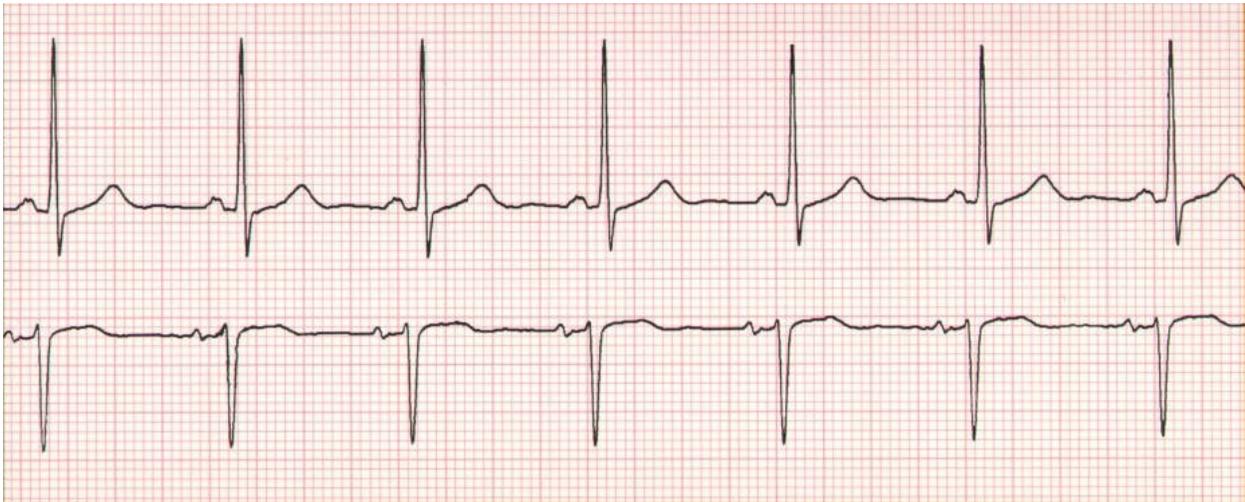
### Six Basic Steps for Rhythm Interpretation

1. Rate: (Calculate the heart rate (HR) or note the HR from the monitor)
2. Regularity: (Measure the regularity or rhythm of the R waves)
3. P-wave Examination: Is there one P wave before each QRS? (there should be)
4. P to R Interval: (Measure the P to R interval - Is it within normal limits? It is consistent?)
5. QRS Width: (Measure the duration of the QRS complex)
6. Rhythm Interpretation

### N321 Adult Health EKG Practice

Please determine heart rate, irregular or regular rhythm, P wave before QRS, PR interval, QRS interval

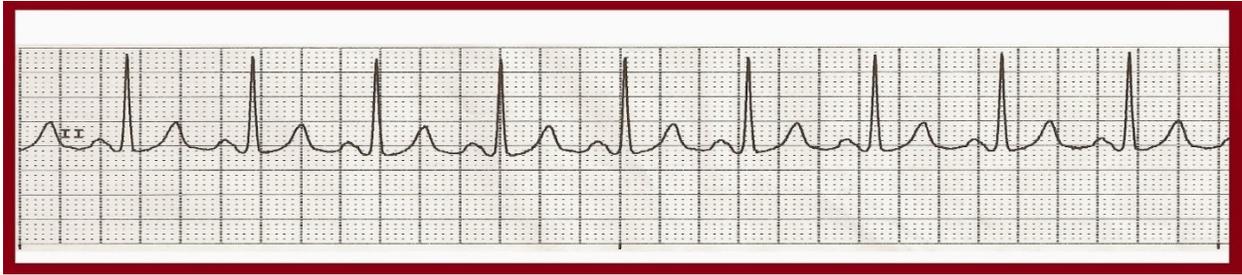
Then answer if Normal sinus rhythm, Sinus Bradycardia, Sinus Tachycardia, Asystole



1. Heart Rate 70 bpm Regular or irregular: Regular P wave before each QRS yes

Between PR (0.12-0.20): 0.12 QRS 0.04-0.10 0.08

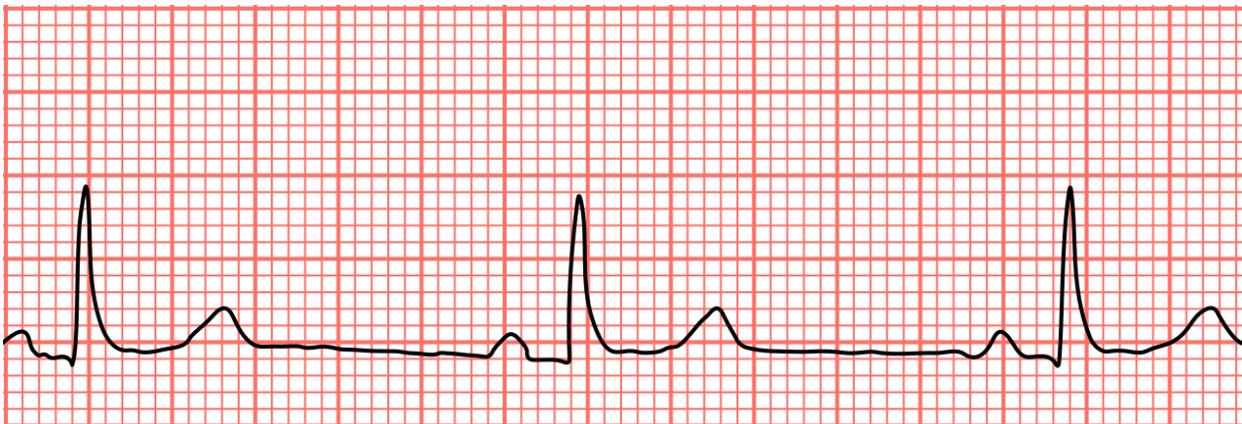
Answer: NSR



2. Heart Rate 90 bpm Regular or irregular Regular P wave before each QRS Yes

Between PR (0.12-0.20) 0.16 ORS 0.04-0.10 0.08

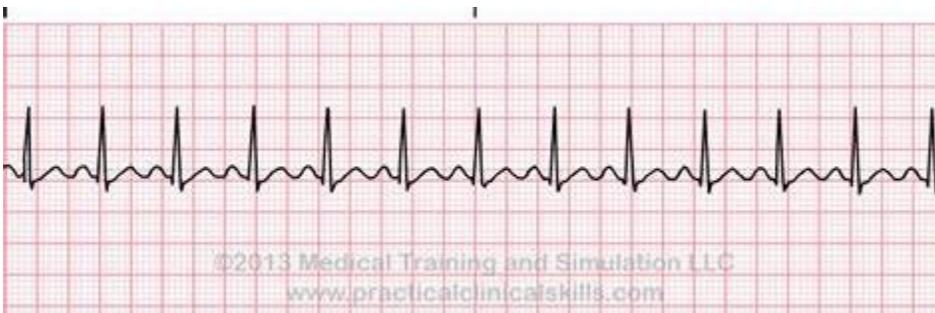
Answer: NSR



3. Heart Rate 30 bpm Regular or irregular Regular P wave before each QRS Yes

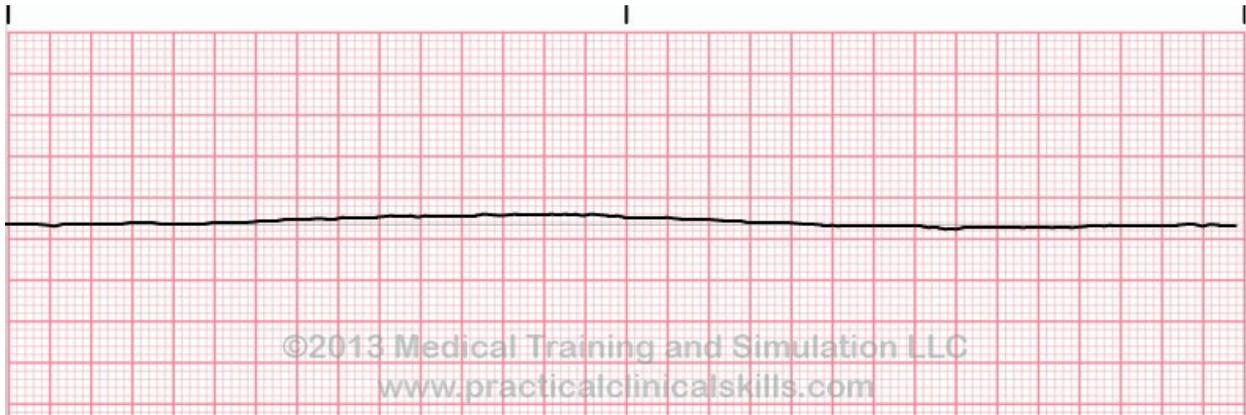
Between PR (0.12-0.20) 0.20 ORS 0.04-0.10 0.08

Answer: S. Bradycardia



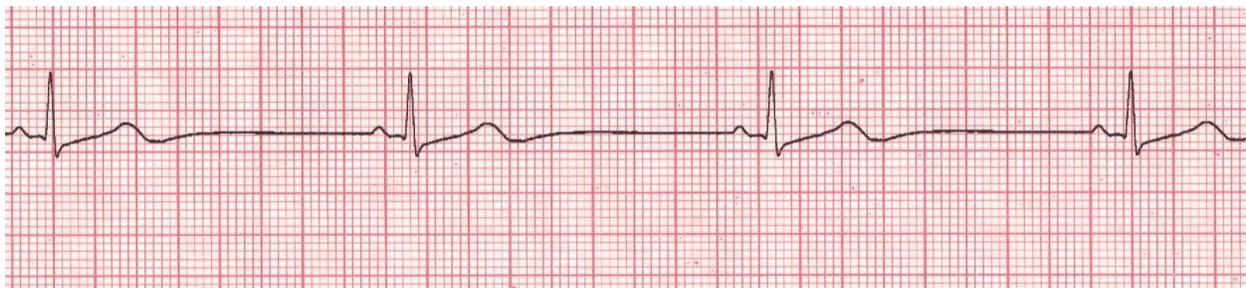
4. Heart Rate 130 bpm Regular or irregular Regular P wave before each QRS Yes  
Between PR (0.12-0.20) 0.16 ORS 0.04-0.10 0.04

Answer: S. Tachycardia



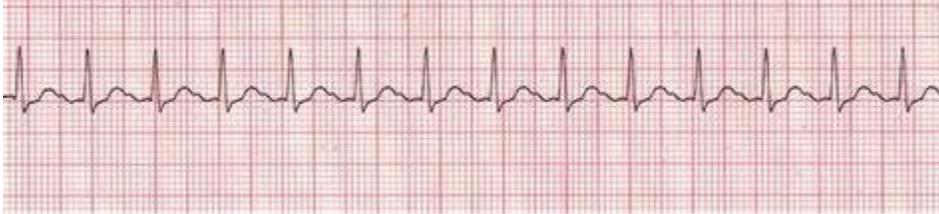
5. Heart Rate No HR Regular or irregular Irregular P wave No P wave

Answer: Asystole



6. Heart Rate 40 bpm Regular or irregular Regular P wave before each QRS Yes  
Between PR (0.12-0.20) 0.16 ORS 0.04-0.10 0.08

Answer: S. Bradycardia



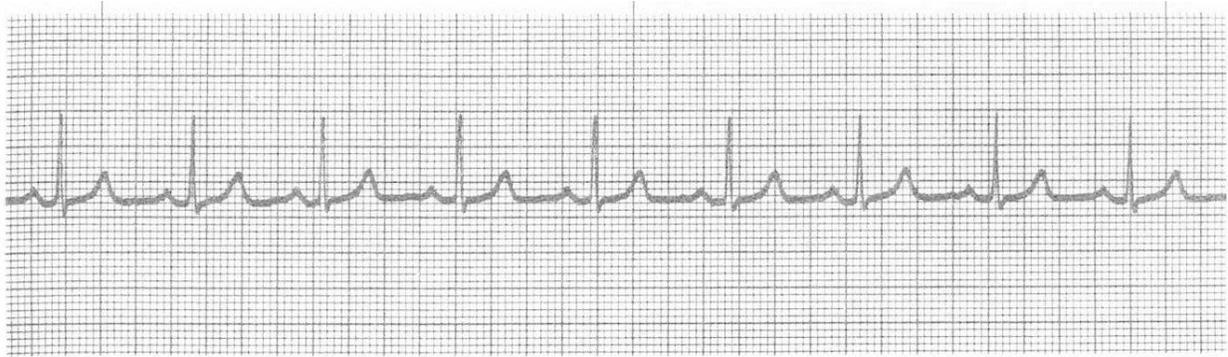
7. Heart Rate 140 bpm Regular or irregular Regular P wave before each QRS Yes  
Between PR (0.12-0.20) 0.16 QRS 0.04-0.10 0.08

Answer: S. Tachycardia



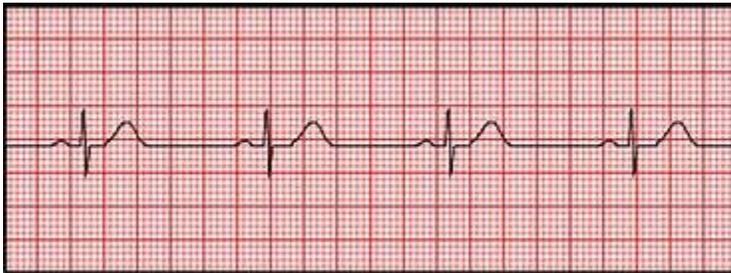
8. Heart Rate HR flat lined Regular or irregular Irregular P wave No

Answer: Asystole



9. Heart Rate 90 bpm Regular or irregular Regular P wave before each QRS Yes  
Between PR (0.12-0.20) 0.20 QRS 0.04-0.10 0.08

Answer: NSR



10. Heart Rate 40 bpm Regular or irregular Regular P wave before each QRS Yes  
Between PR (0.12-0.20) 0.16 QRS 0.04-0.10 0.08

Answer: S. Bradycardia