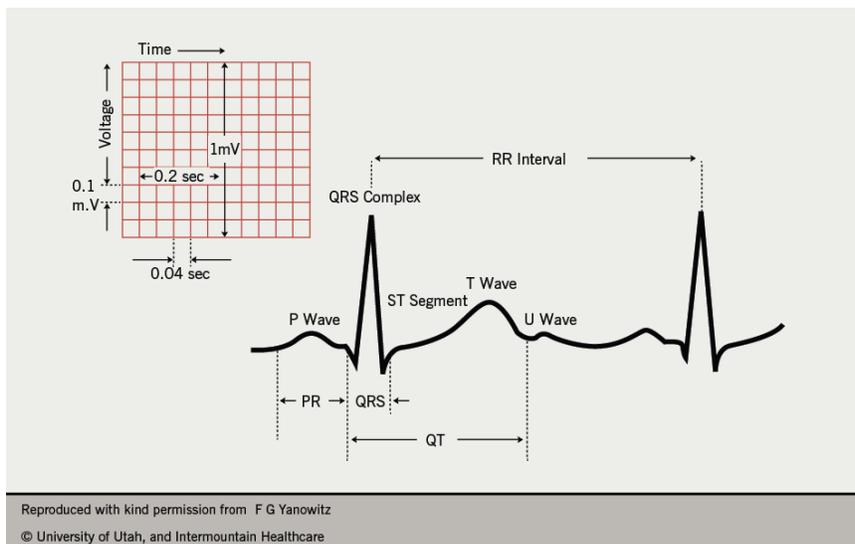
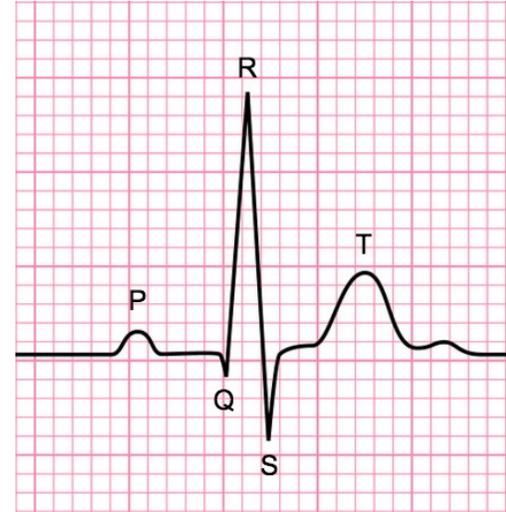
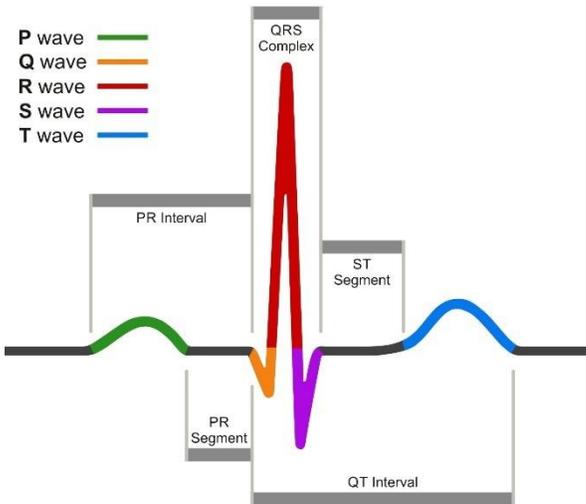


The EKG waveform consists of:

- 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).

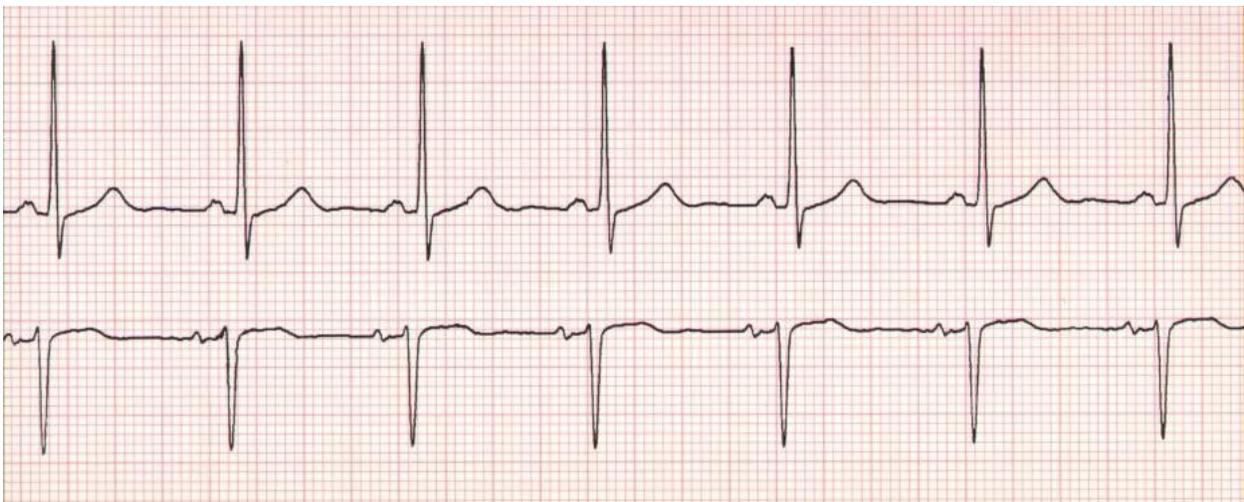
Six Basic Steps for Rhythm Interpretation

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

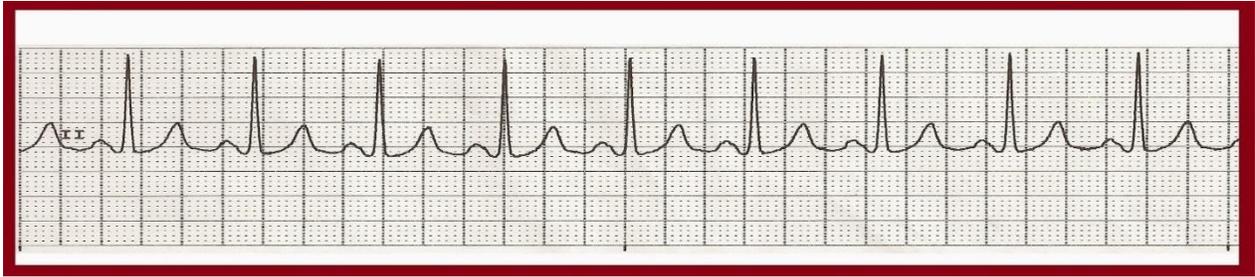
N321 Adult Health EKG Practice

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 60-100 Regular or irregular regular P wave before each QRS yes
 Between PR (0.12-0.20) yes QRS 0.04-0.10 yes
 Answer: Normal Sinus Rhythm



2. Heart Rate 60-100 Regular or irregular regular P wave before each QRS yes

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

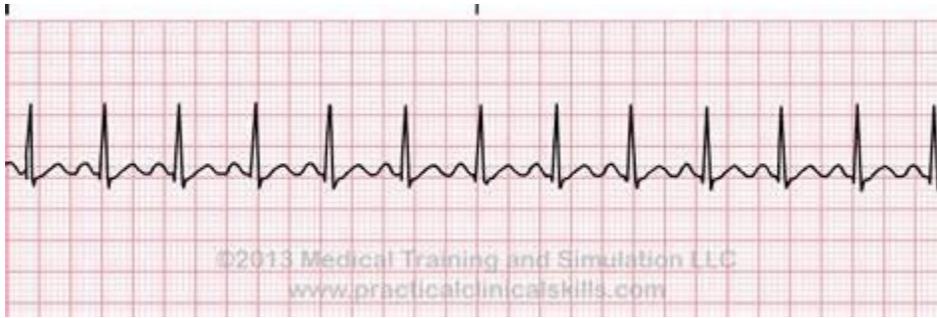
Answer: Normal Sinus Rhythm



3. Heart Rate less than 60 Regular or irregular regular P wave before each QRS yes

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

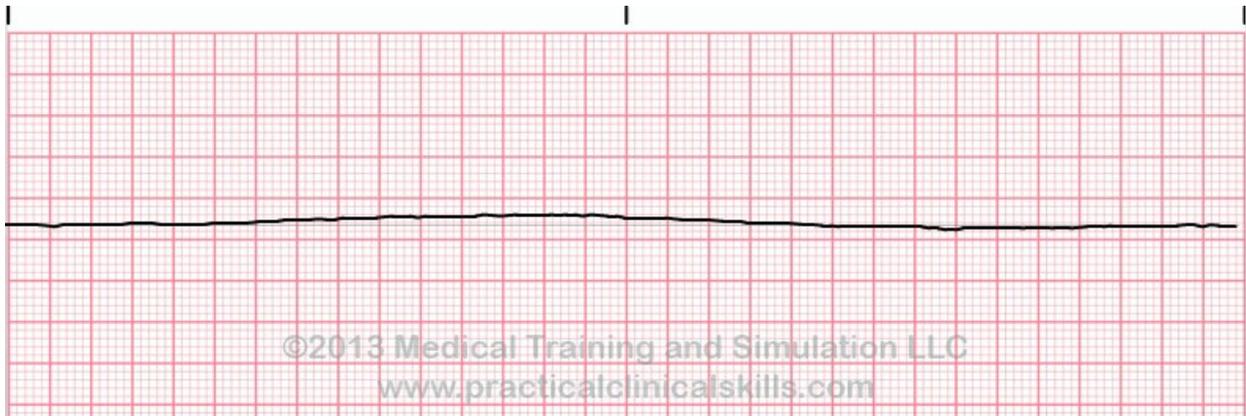
Answer: Sinus bradycardia



4. Heart Rate greater than 100 Regular or irregular regular P wave before each QRS yes

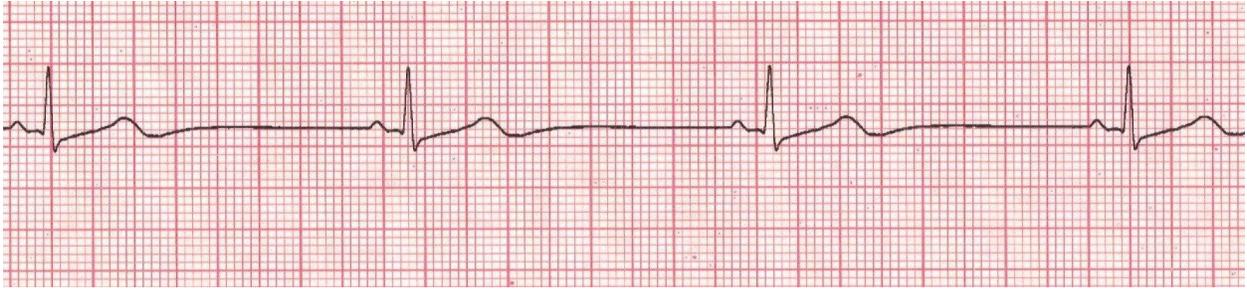
Between PR (0.12-0.20) yes QRS 0.04-0.10 yes

Answer: Sinus Tachycardia



5. Heart Rate 0 Regular or irregular irregular P wave None due to asystole

Answer: Asystole



6. Heart Rate Less than 60 Regular or irregular regular P wave before each QRS yes

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

Answer: Sinus Bradycardia



7. Heart Rate greater than 100 Regular or irregular regular P wave before each QRS yes, but uniformed

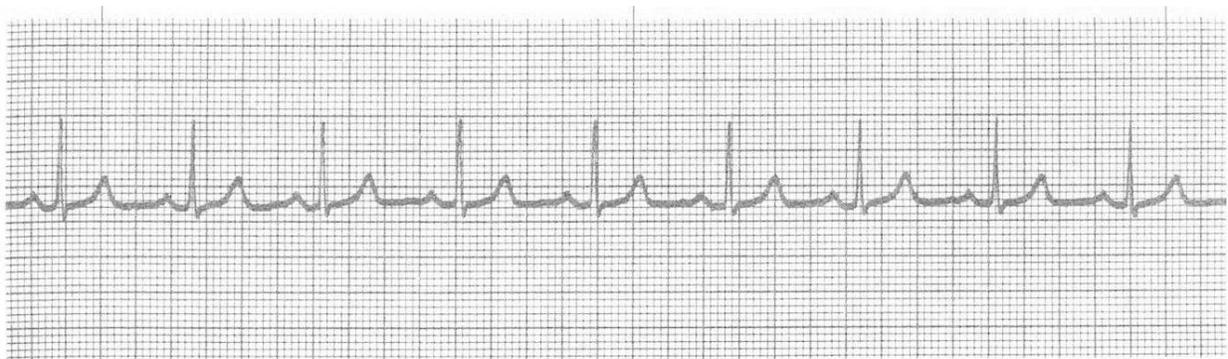
Between PR (0.12-0.20) yes ORS 0.04-0.10 yes

Answer: sinus tachycardia



8. Heart Rate ___ Less than 60 then asystole ___ Regular or irregular ___ irregular ___ P wave ___ Not present ___

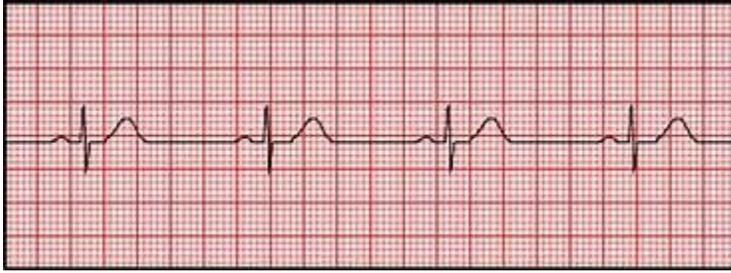
Answer: ___ sinus tachycardia to asystole ___



9. Heart Rate ___ 60-100 ___ Regular or irregular ___ regular ___ P wave before each QRS ___ yes ___

Between PR (0.12-0.20) ___ yes ___ QRS 0.04-0.10 ___ yes ___

Answer: ___ Normal Sinus Rhythm ___



10. Heart Rate ___less than 60 (40-60)___ Regular or irregular ___regular___ P wave before each QRS ___yes___

Between PR (0.12-0.20) ___yes___ QRS 0.04-0.10 ___yes___

Answer: _sinus bradycardia___