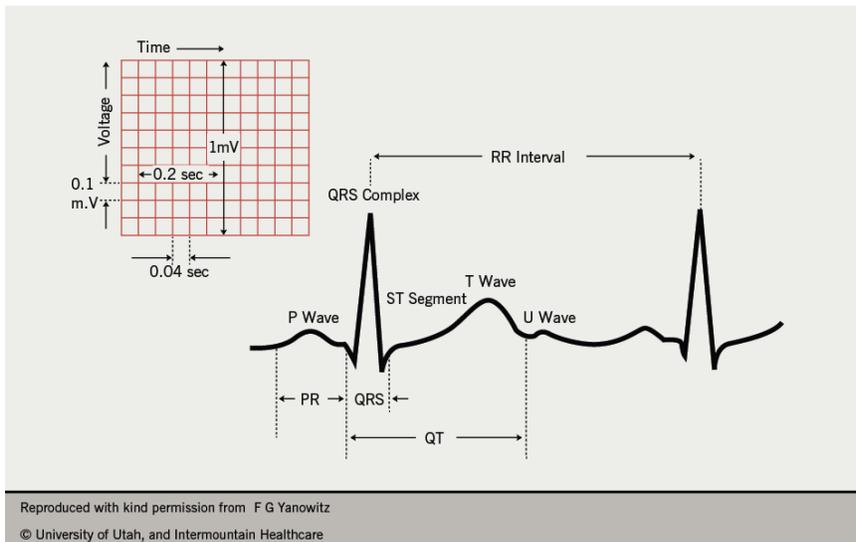
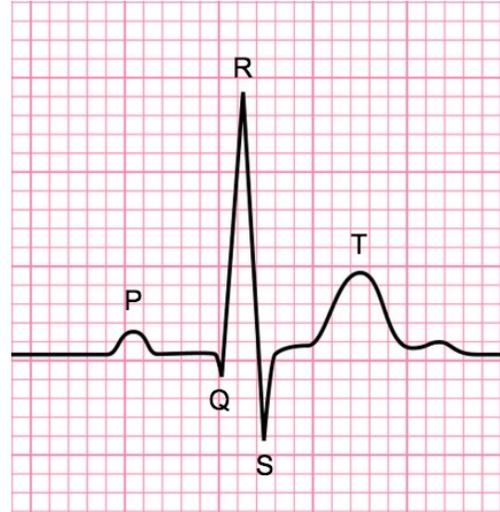
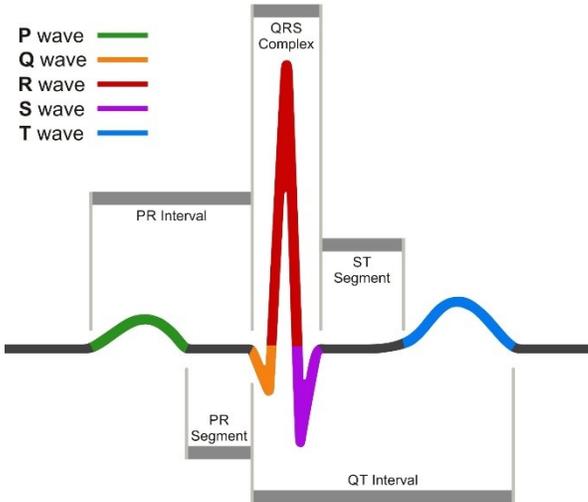


The EKG waveform consists of:

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



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- 1 small square on an ECG trace (at 25 mm/s speed) = 0.04 s
- PR interval 0.12–0.20 seconds (3–5 small squares)
- QRS complex 0.06–0.12 seconds (1.5–2.5 small squares)- **if Bradycardia could be slightly prolonged at slower rates**

### Six Basic Steps for Rhythm Interpretation

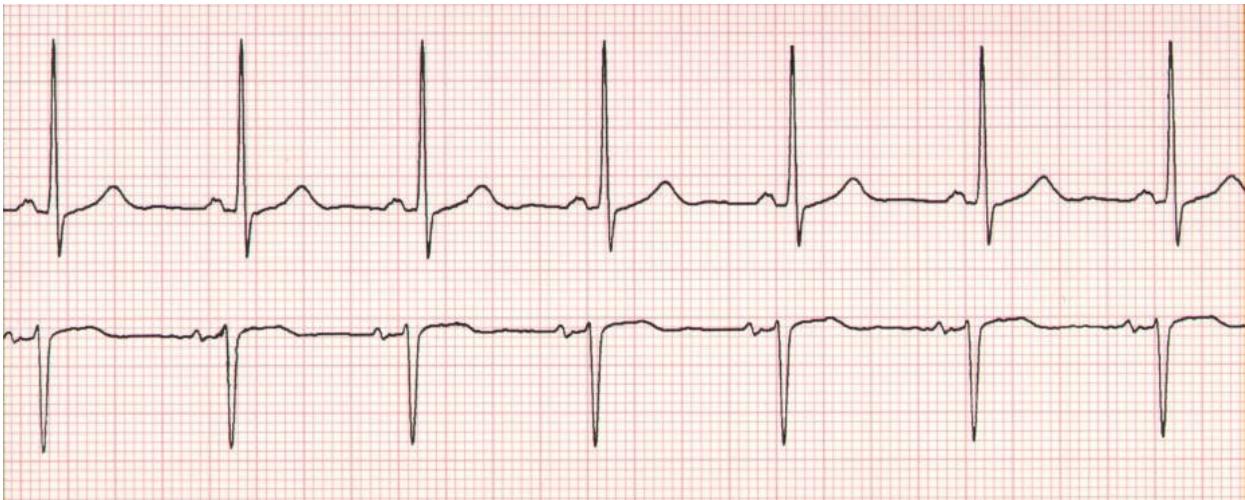
1. Rate: (Calculate the heart rate (HR) or note the HR from the monitor)
2. Regularity: (Measure the regularity or rhythm of the R waves)
3. P-wave Examination: Is there one P wave before each QRS? (there should be)
4. P to R Interval: (Measure the P to R interval - Is it within normal limits? It is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

N321 Adult Health EKG Practice

### Please assume these are 6s strips

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

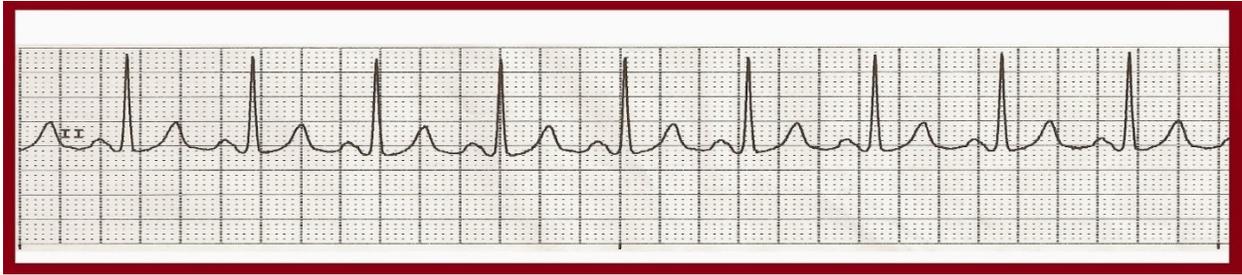
Then answer if Normal sinus rhythm, Sinus Bradycardia, Sinus Tachycardia, Asystole



1. Heart Rate\_70\_\_\_ Regular or irregular\_R\_\_\_ P wave before each QRS\_Y\_\_\_

Between PR (0.12-0.20) \_\_\_0.12\_\_\_ QRS 0.06-0.12 \_\_\_0.06\_\_\_

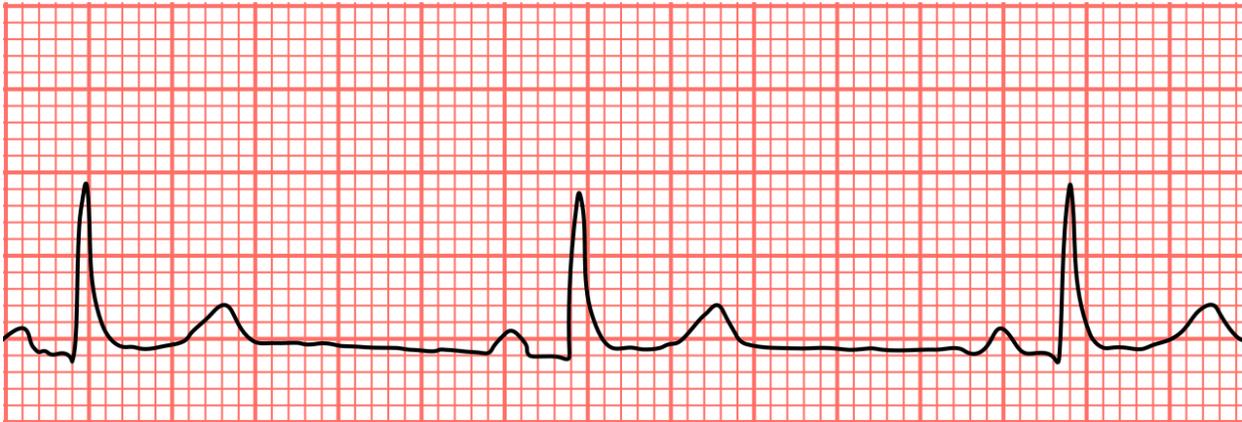
Answer: \_\_\_\_\_NSR\_\_\_\_\_



2. Heart Rate 90 Regular or irregular R P wave before each QRS Y

Between PR (0.12-0.20) .14 QRS 0.06-0.12 0.06

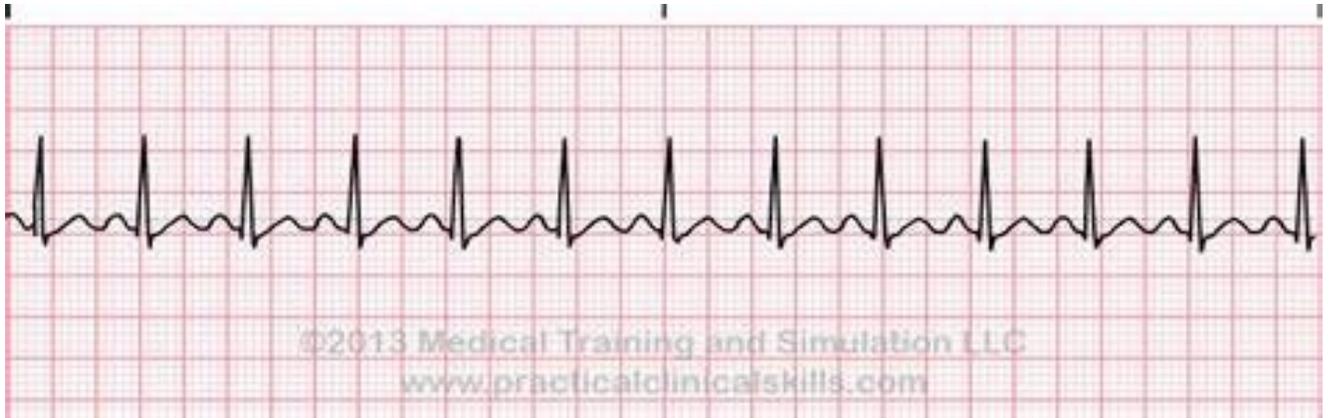
Answer: NSR



3. Heart Rate 30 Regular or irregular R P wave before each QRS Y

Between PR (0.12-0.20) 0.20 QRS 0.06-0.10 0.08

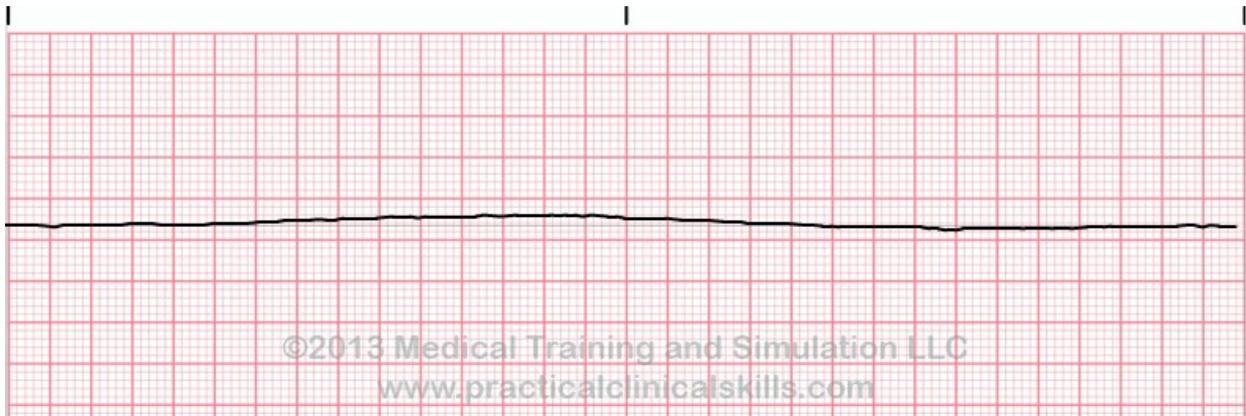
Answer: SB



4. Heart Rate 130 Regular or irregular R P wave before each QRS Y

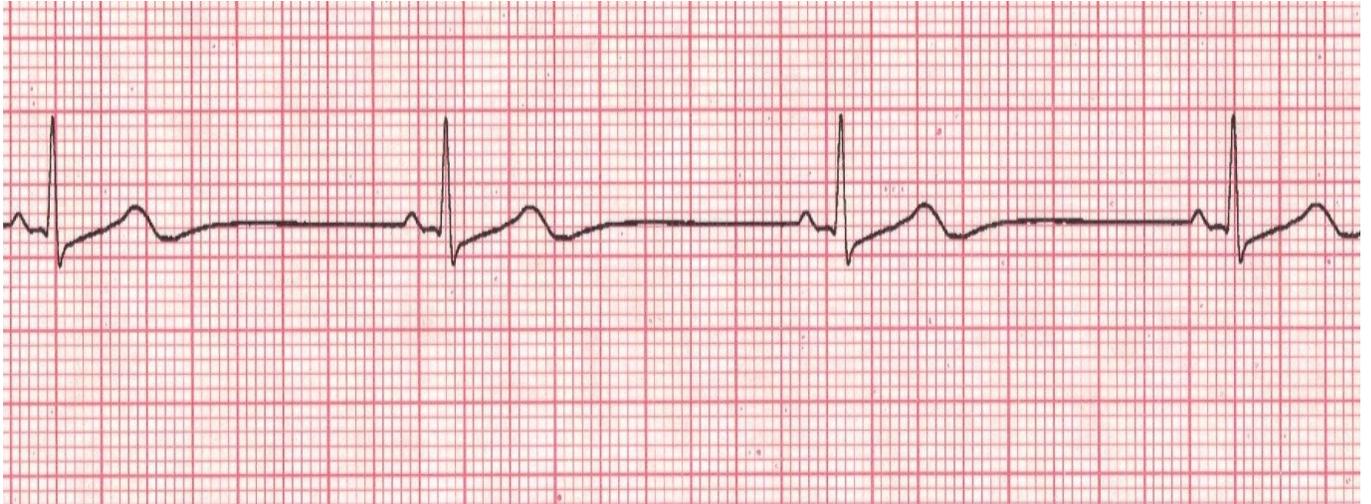
Between PR (0.12-0.20) 0.06 QRS 0.06-0.12 0.04

Answer: ST



5. Heart Rate NA Regular or irregular NA P wave NO

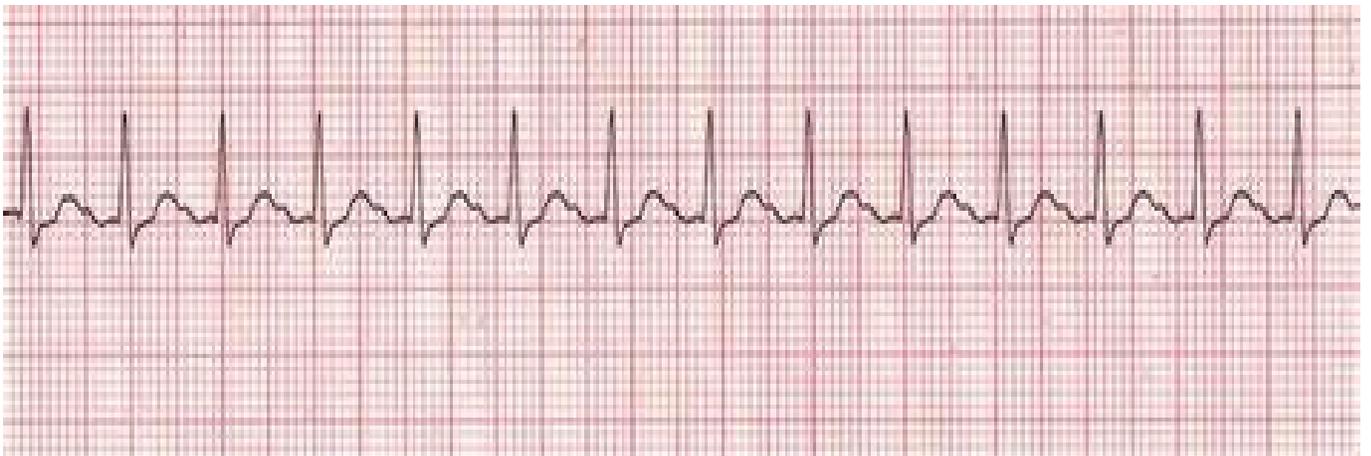
Answer: ASYSTOLE



6. Heart Rate 40 Regular or irregular R P wave before each QRS Y

Between PR (0.12-0.20) 0.14 QRS 0.06-0.12 0.06

Answer: SB



7. Heart Rate 140 Regular or irregular Y P wave before each QRS Y

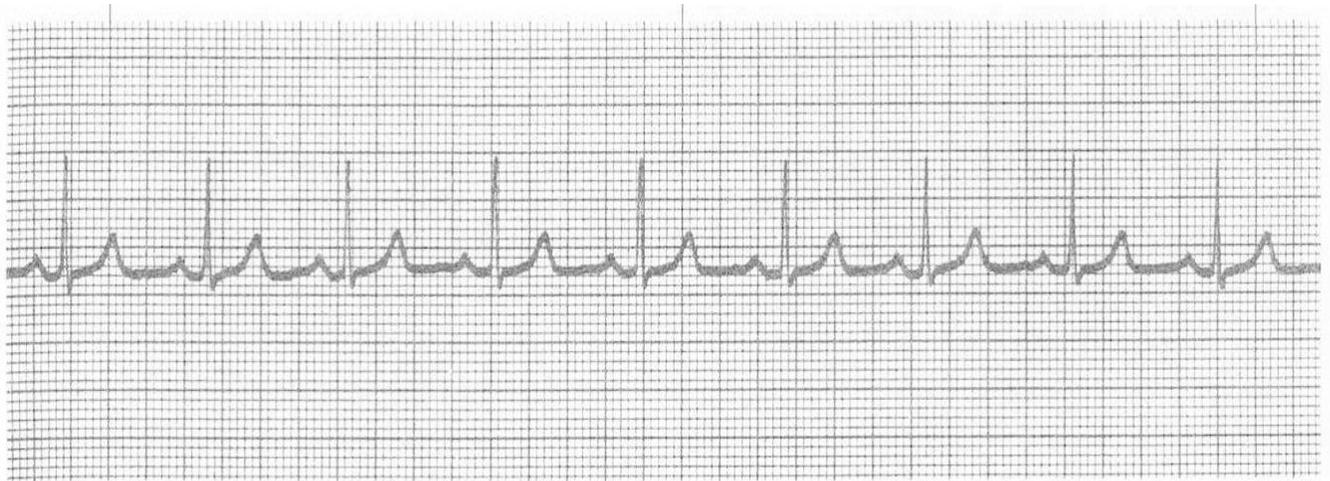
Between PR (0.12-0.20) 0.16 QRS 0.06-0.12 0.04

Answer: ST



8. Heart Rate \_\_\_\_\_ NA \_\_\_\_\_ Regular or irregular \_\_\_\_\_ NA \_\_\_\_\_ P wave \_\_\_\_\_ NO \_\_\_\_\_

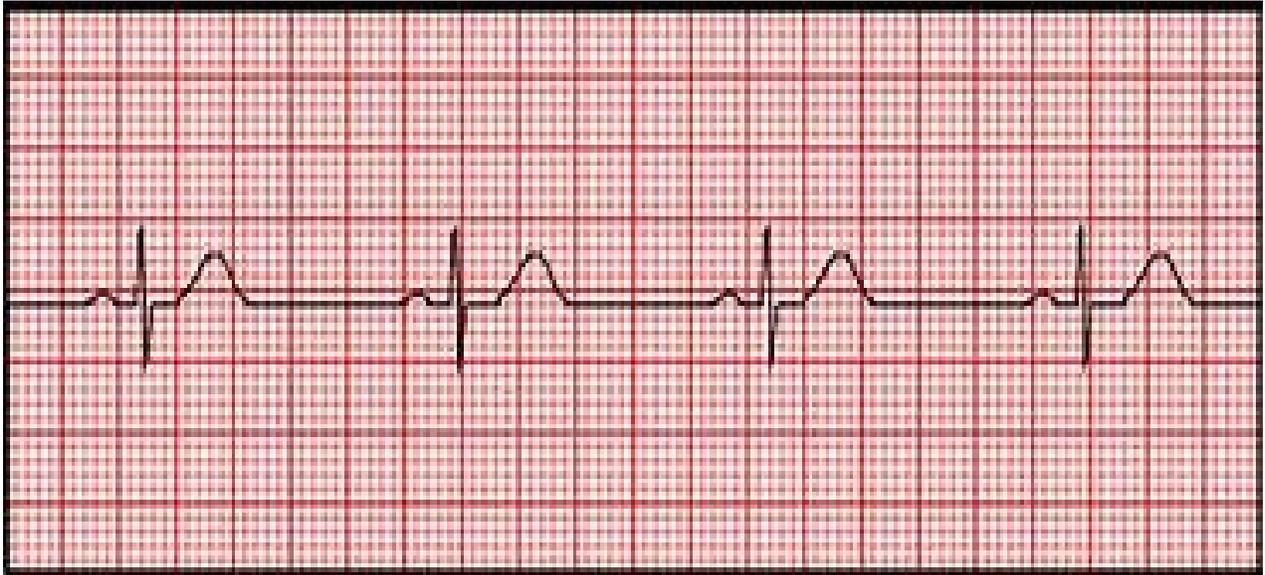
Answer: \_\_\_\_\_ V-FIB LEADING INTO ASYSTOLE \_\_\_\_\_



9. Heart Rate \_\_\_\_\_ 90 \_\_\_\_\_ Regular or irregular \_\_\_\_\_ R \_\_\_\_\_ P wave before each QRS \_\_\_\_\_ Y \_\_\_\_\_

Between PR (0.12-0.20) \_\_\_\_\_ 0.14 \_\_\_\_\_ QRS 0.06-0.12 \_\_\_\_\_ 0.06 \_\_\_\_\_

Answer: \_\_\_\_\_ SR \_\_\_\_\_



10. Heart Rate \_\_\_\_ 40 \_\_\_\_ Regular or irregular \_\_\_\_ R \_\_\_\_ P wave before each QRS\_Y \_\_\_\_

Between PR (0.12-0.20) \_\_ 0.14 \_\_\_\_ QRS 0.06-0.12 \_\_\_\_ 0.06 \_\_\_\_

Answer: \_\_\_\_ SB \_\_\_\_