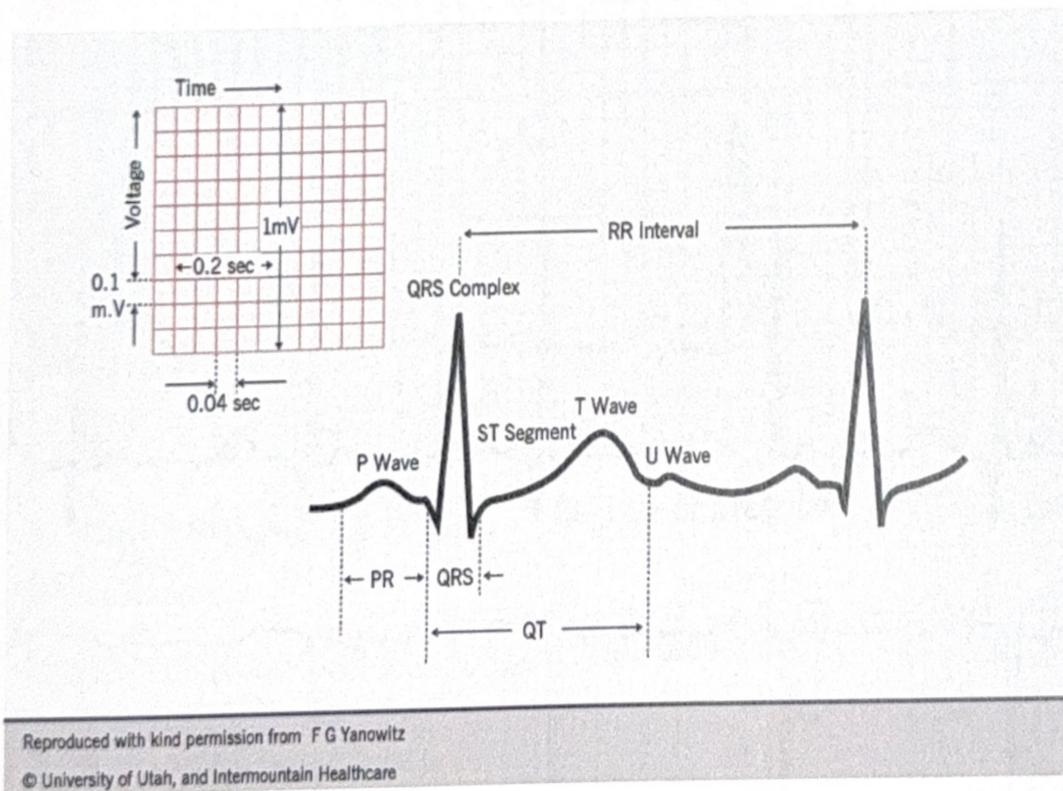
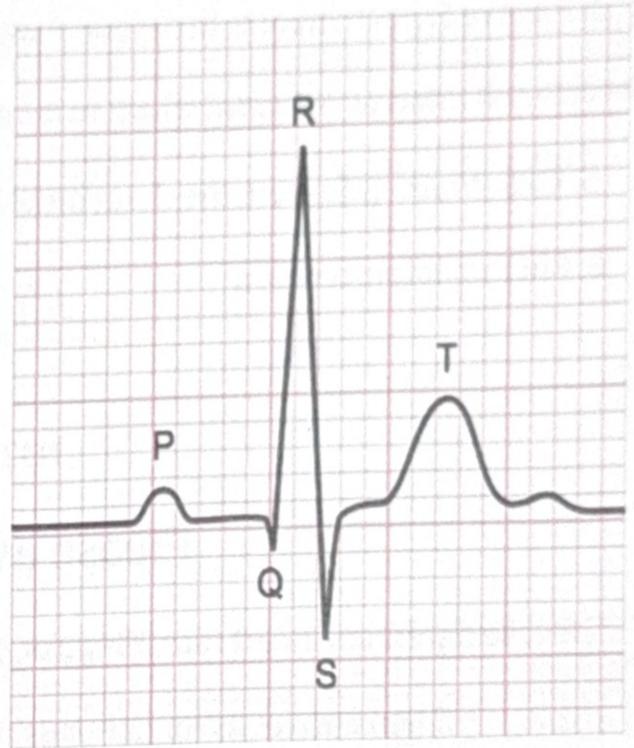
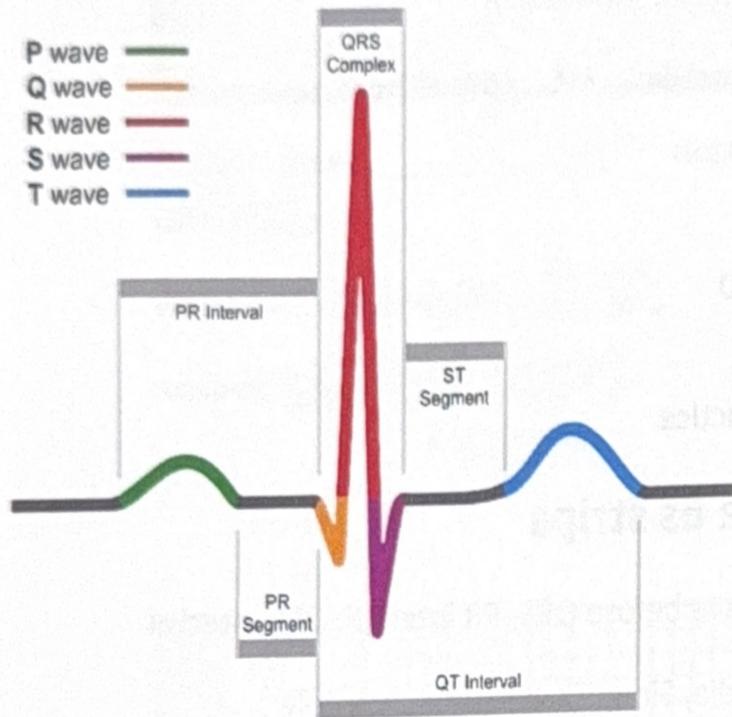


Hadley Jones

atria = 1st chamber
top right side / P wave

The EKG waveform consists of:

- P Wave: Represents atrial depolarization
- QRS: Represents ventricular depolarization → ventricles squeezing
- T Wave: Represents ventricular repolarization → expands/refills with blood



- 1 small square on an EKG 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

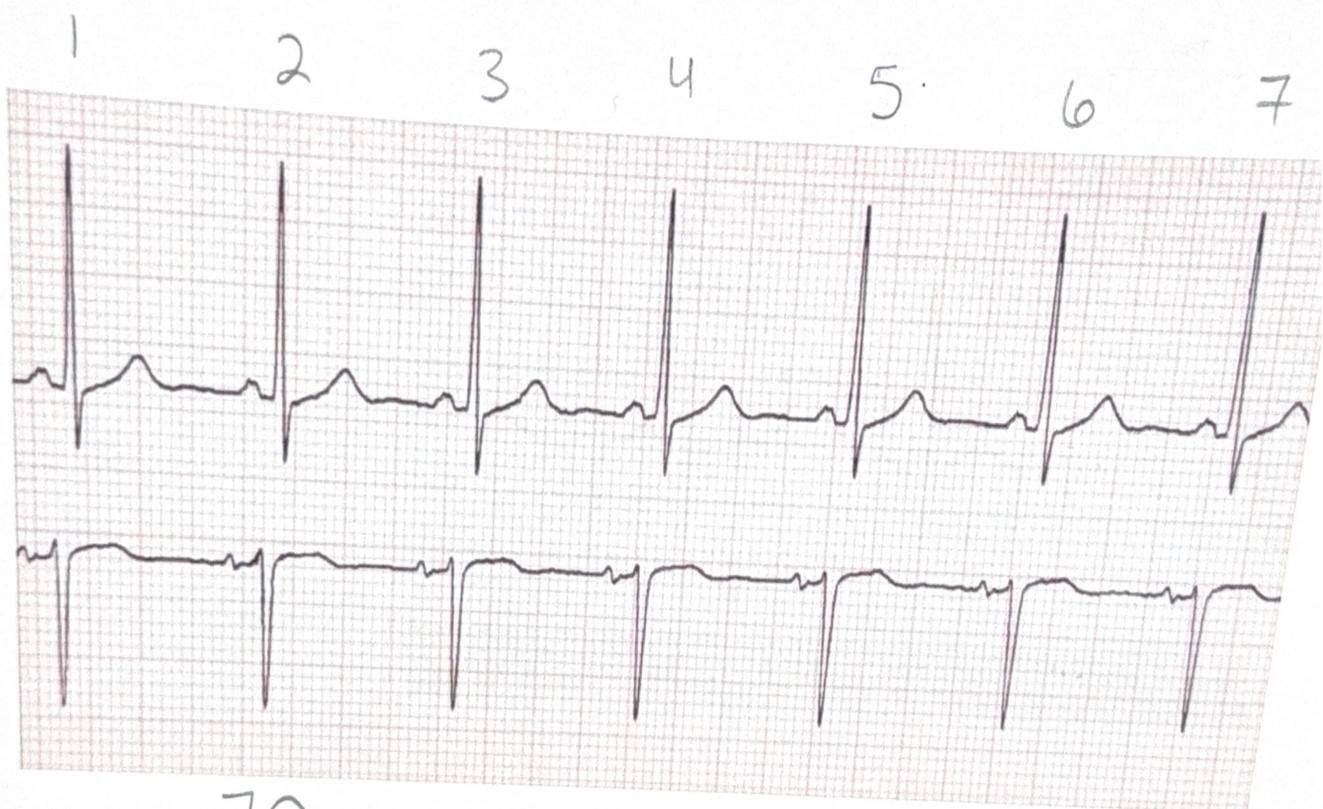
Six Basic Steps for Rhythm Interpretation

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 $\frac{70}{\times 10}$ Regular or irregular regular P wave before each QRS Yes
 Between PR (0.12-0.20) 0.12 QRS 0.06-0.12 0.08
 $\frac{3 \times 0.4}{2 \times 0.04}$
 Answer: Normal sinus rhythm



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

Between PR (0.12-0.20) 0.16 QRS 0.06-0.12 0.08

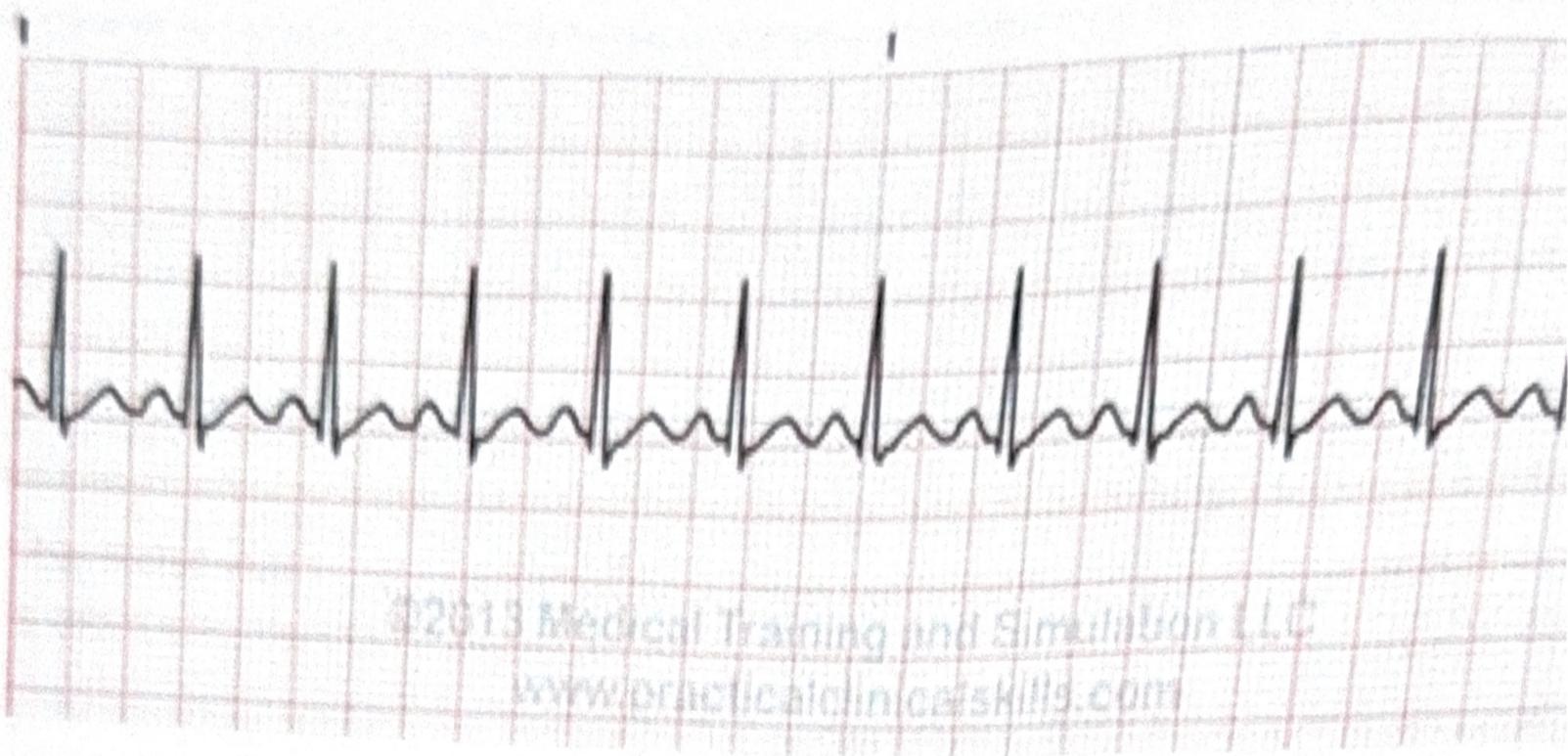
Answer: Normal sinus rhythm



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

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

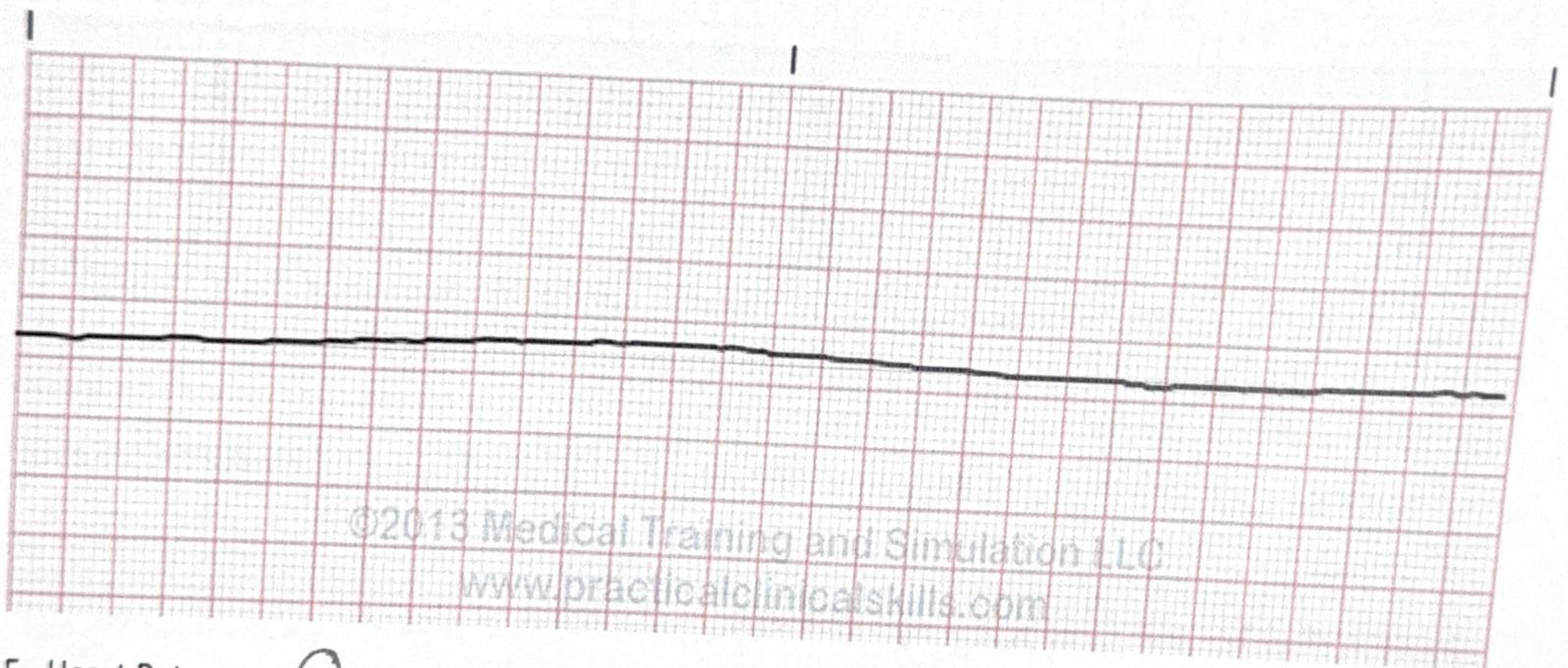
Answer: Sinus bradycardia



4. Heart Rate 130bpm Regular or irregular regular P wave before each QRS yes

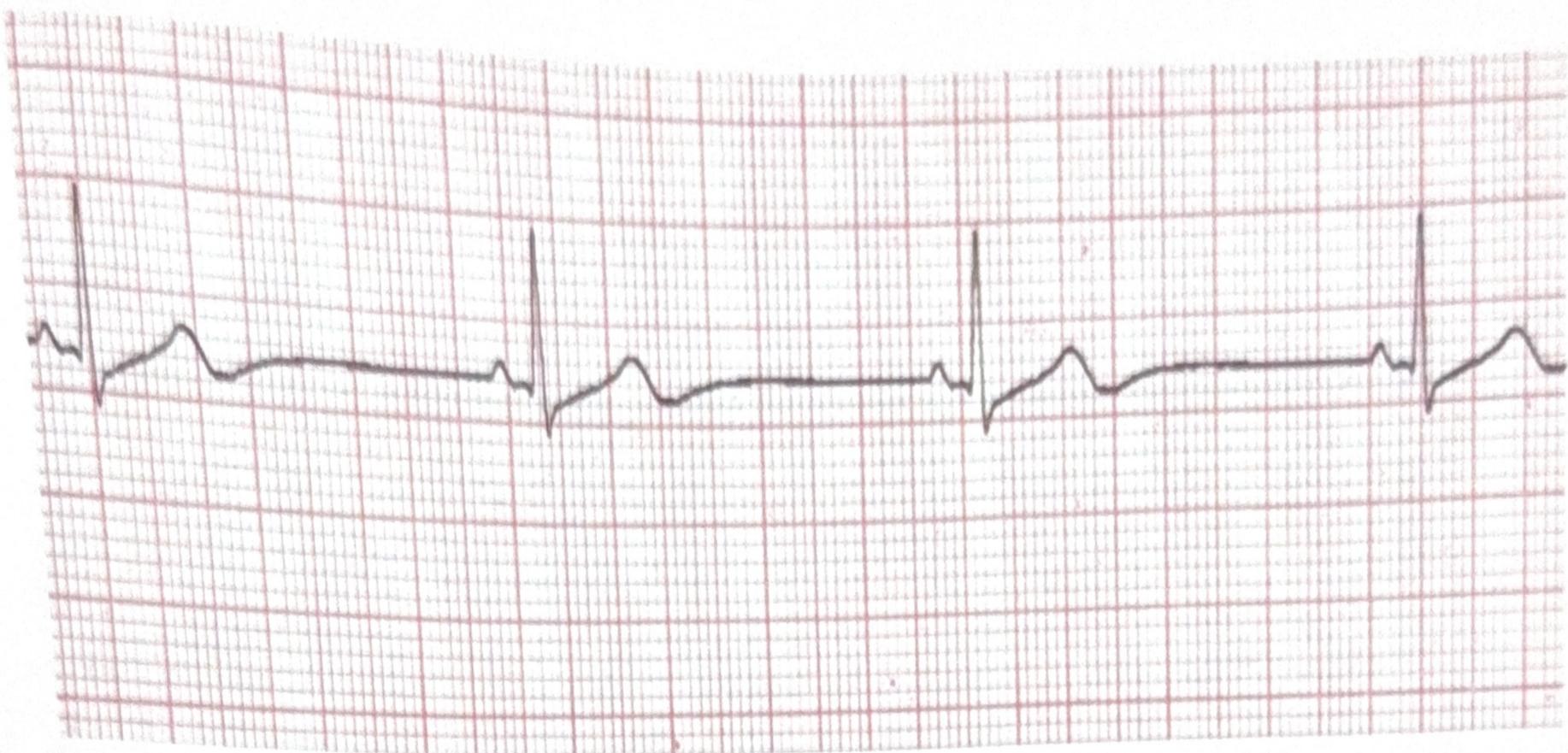
Between PR (0.12-0.20) 0.16 QRS 0.06-0.12 0.08

Answer: Sinus
tachycardia



5. Heart Rate 0 Regular or irregular irregular P wave NO

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 QRS 0.06-0.12 0.04

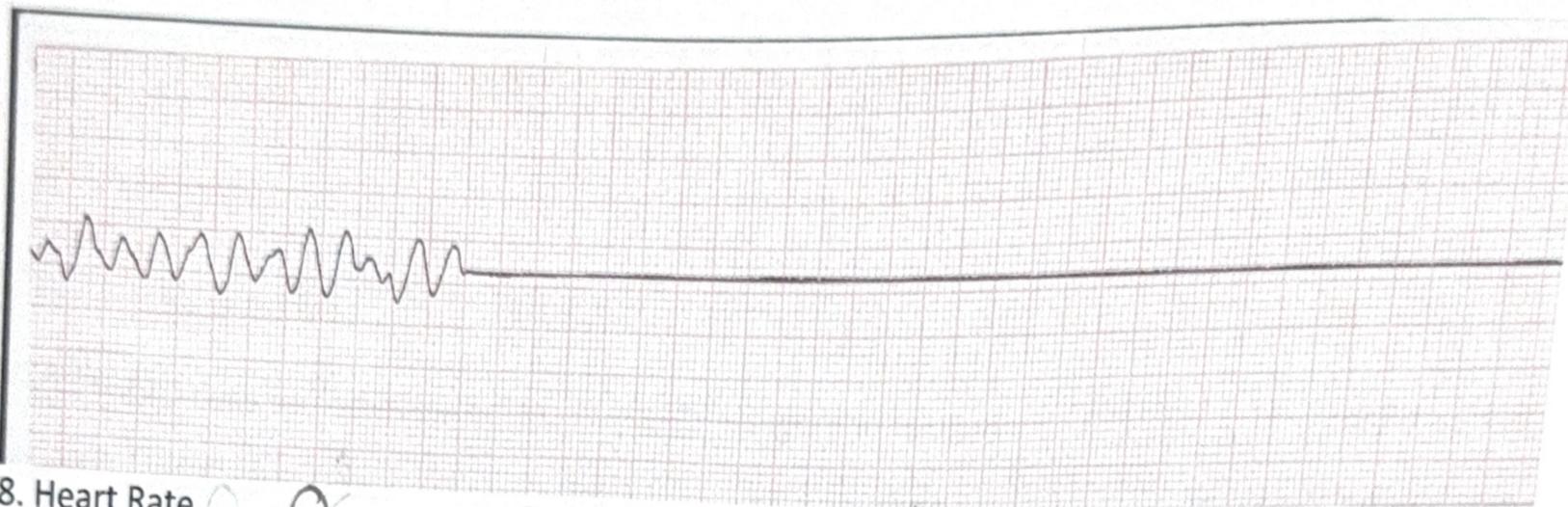
Answer: Sinus
bradycardia



7. Heart Rate 140 bpm Regular or irregular regular P wave before each QRS Yes

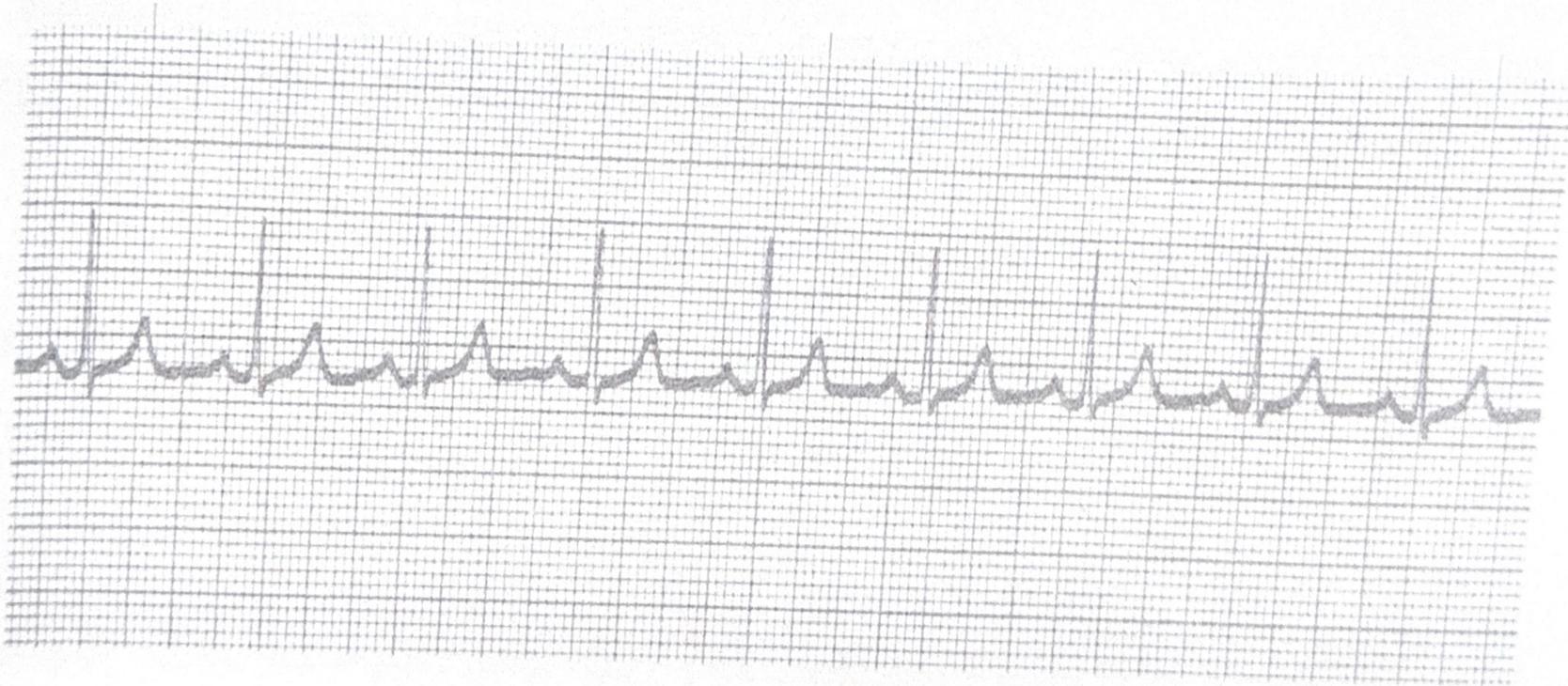
Between PR (0.12-0.20) 0.16 QRS 0.06-0.12 0.04

Answer: Sinus
tachycardia



8. Heart Rate 0 Regular or irregular irregular P wave x

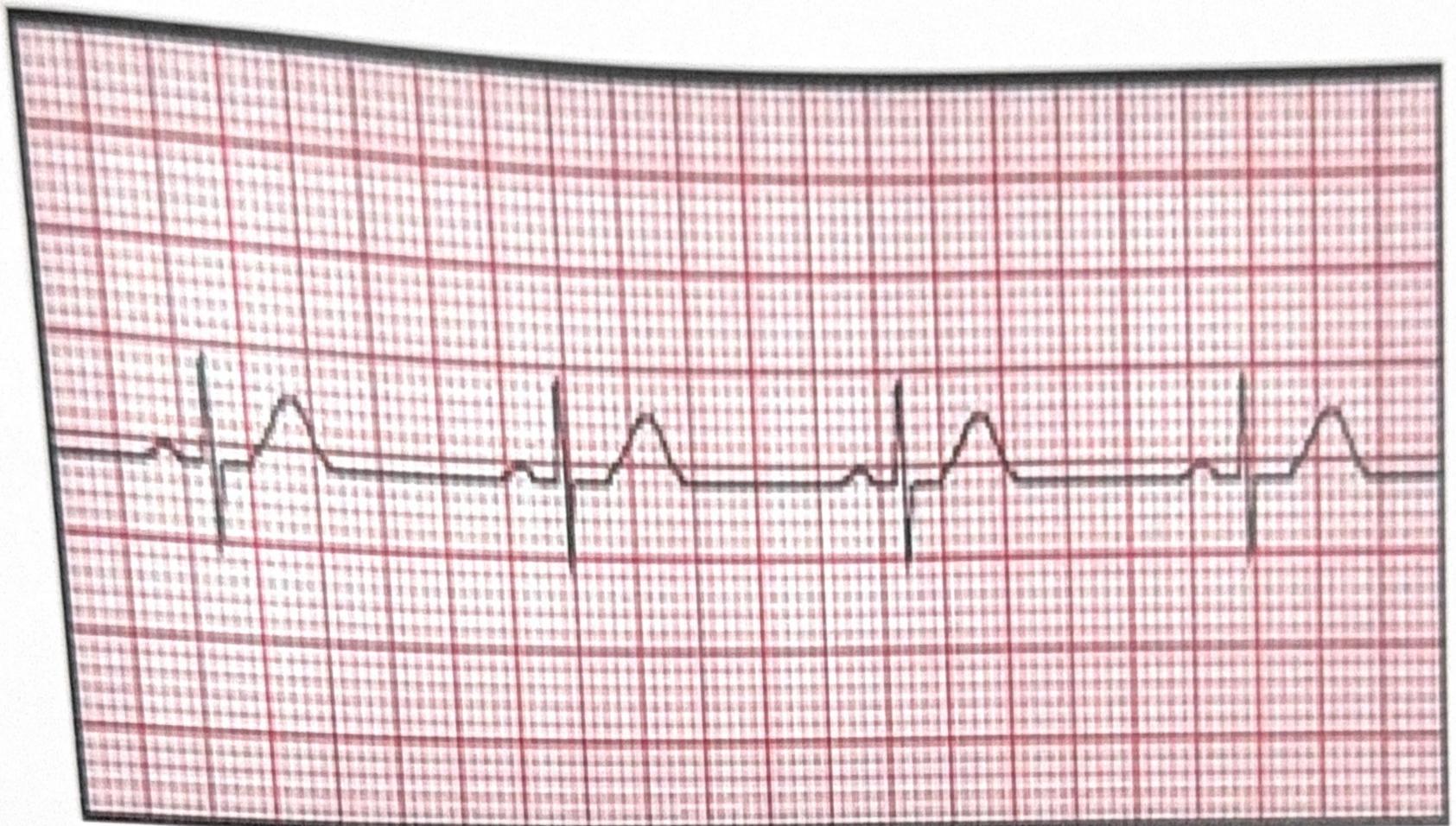
Answer: Asystole



9. Heart Rate 90bpm Regular or irregular regular P wave before each QRS yes

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

Answer: Normal
Sinus



10. Heart Rate 40bpm Regular or irregular regular P wave before each QRS Yes

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

Answer: sinus
bradycardia