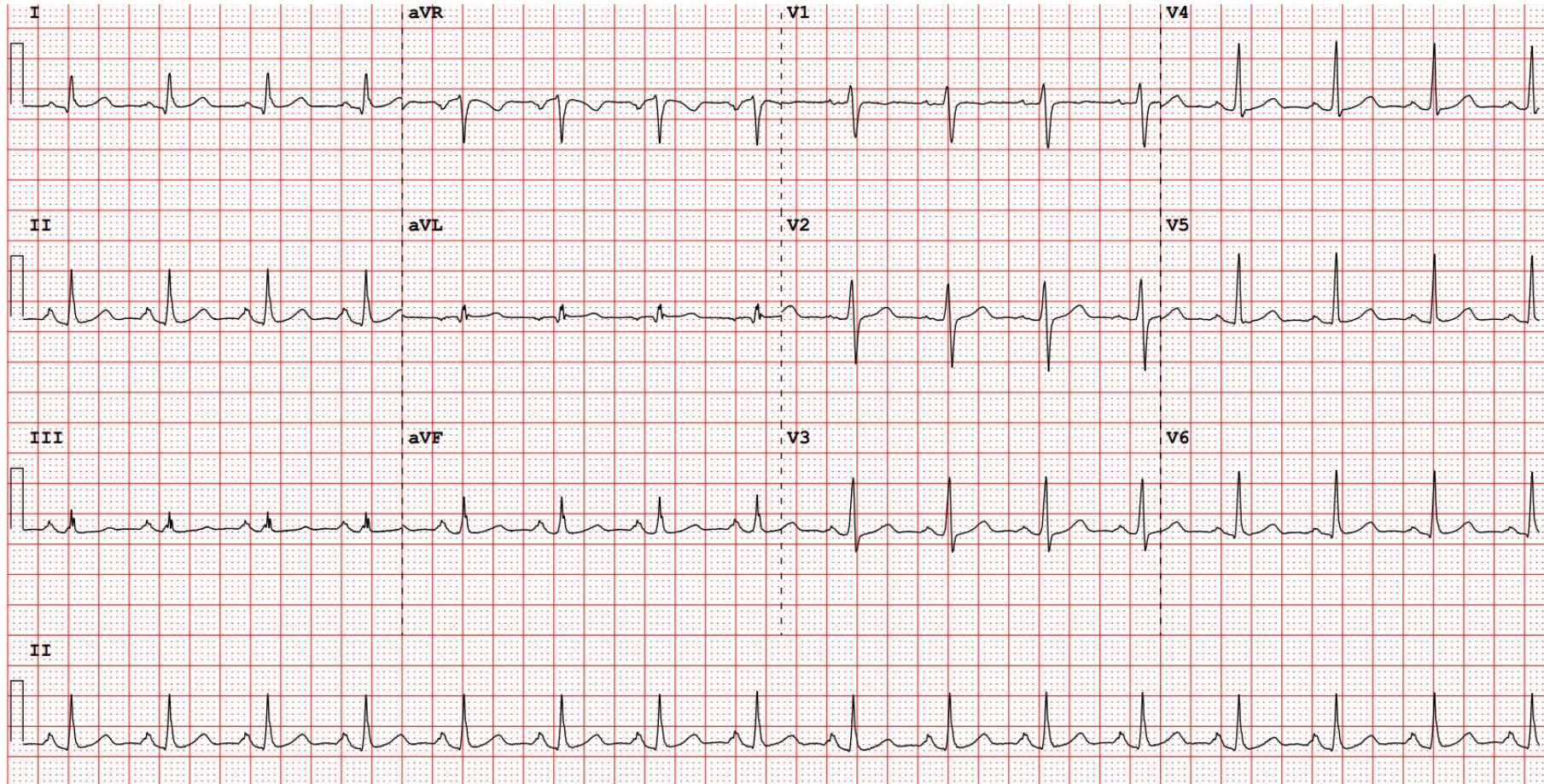


ANPA Conference EKG

Laurie Racenet, FNP, MSN, FHRS, CEPS, CCDS

Normal EKG



Normal EKG

- Sinus Rhythm
- Heart Rate between 60-100bpm
- No ischemia
- No ectopy
- Normal Axis
- No hypertrophy
- P, QRS, T
- Normal intervals
- No blocks

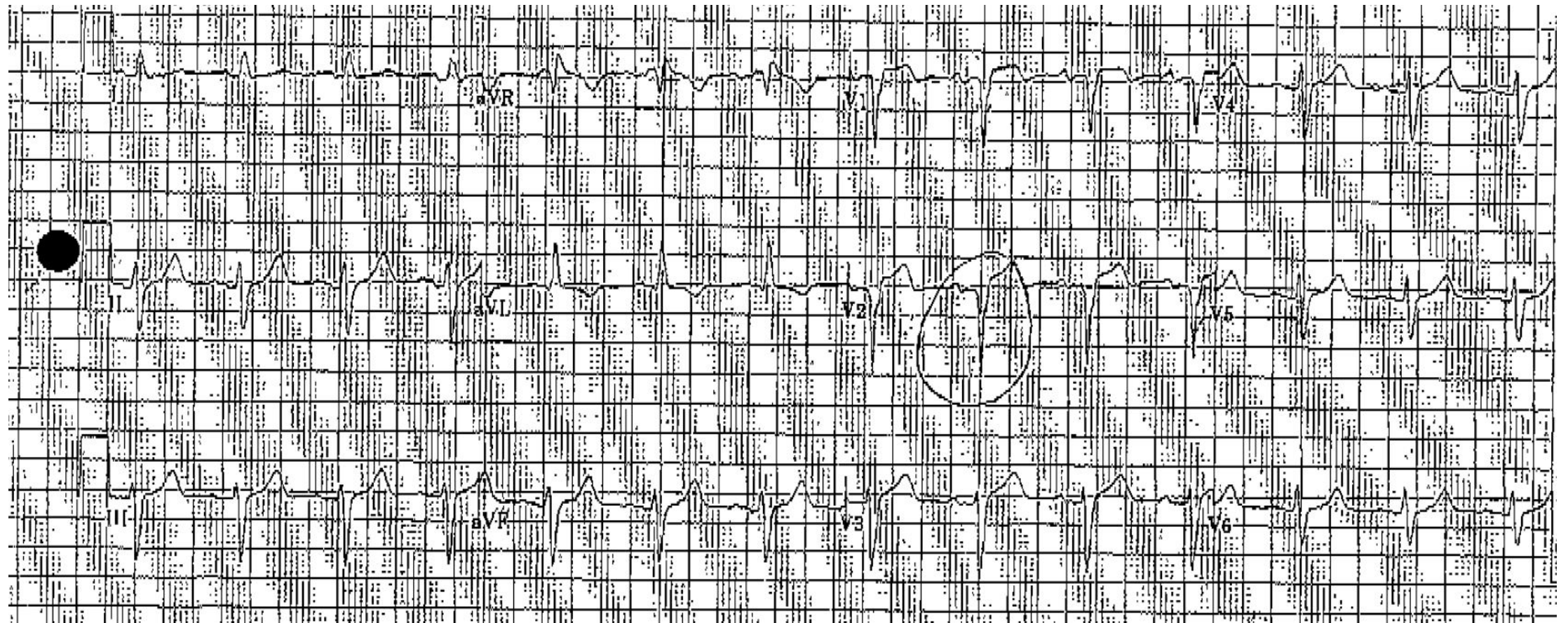
Ischemia

- ST elevation
- ST depression
- T wave inversion

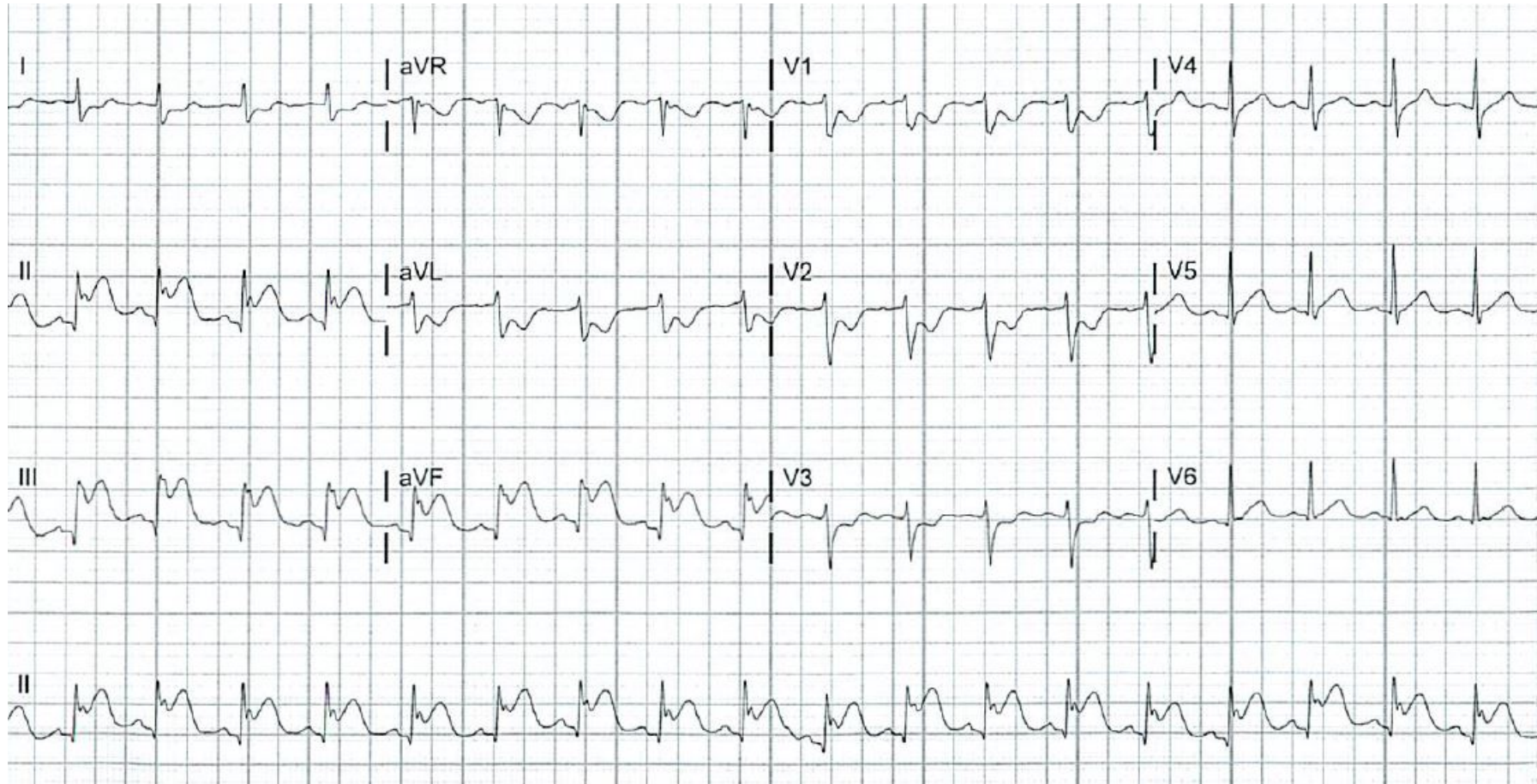
Ischemia

- Leads II, III, aVF: Inferior
- Leads V1 – V4: Anterior
 - Leads V1 and V2: Septal
 - Leads V3 and V4: Apical
- Leads I, aVL, V5, V6: Lateral

Anterior MI



Inferior MI

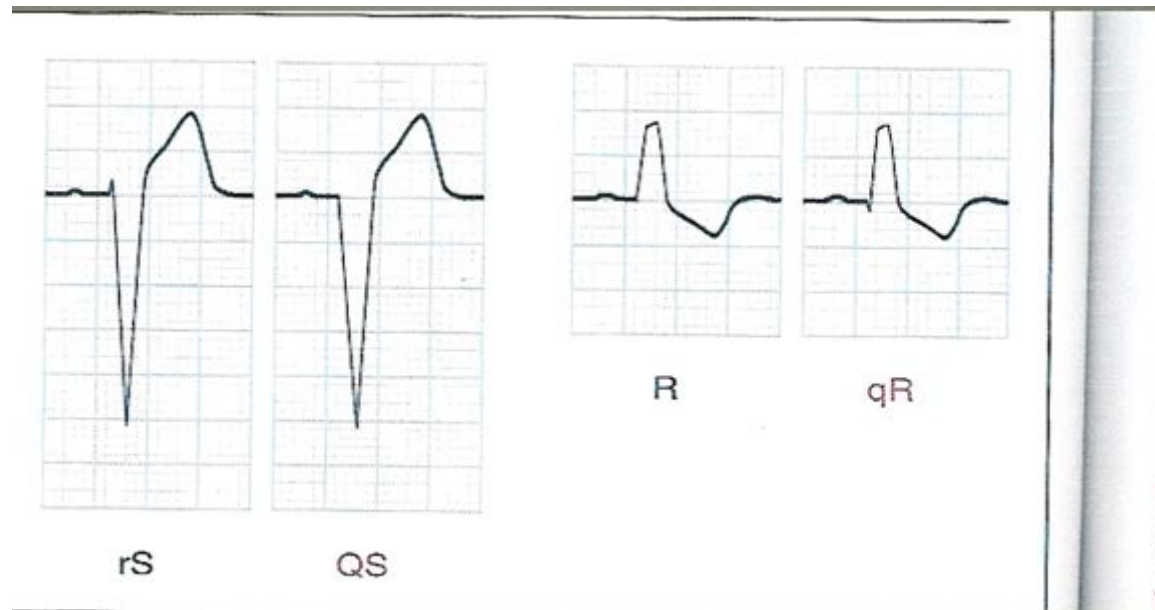


Bundle Branch Block

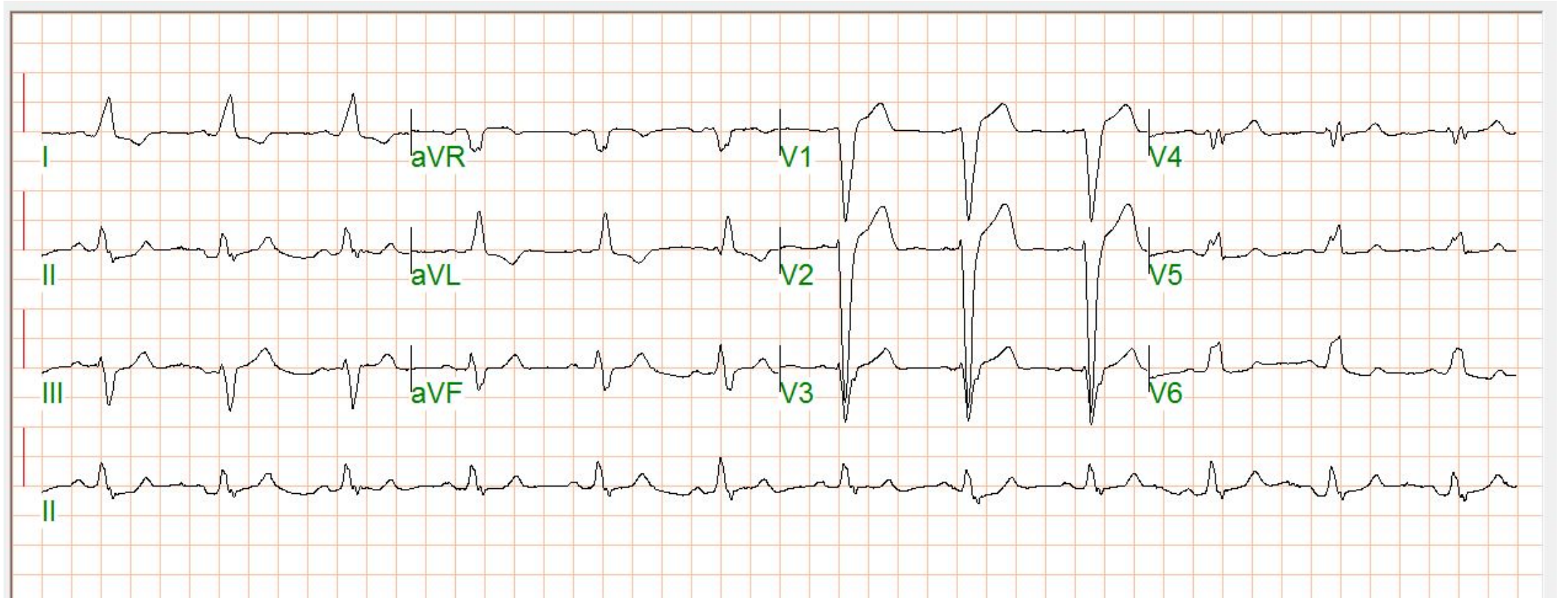
No conduction down one or the other of the 2 bundle branches

QRS > 120 ms

Left Bundle Branch Block



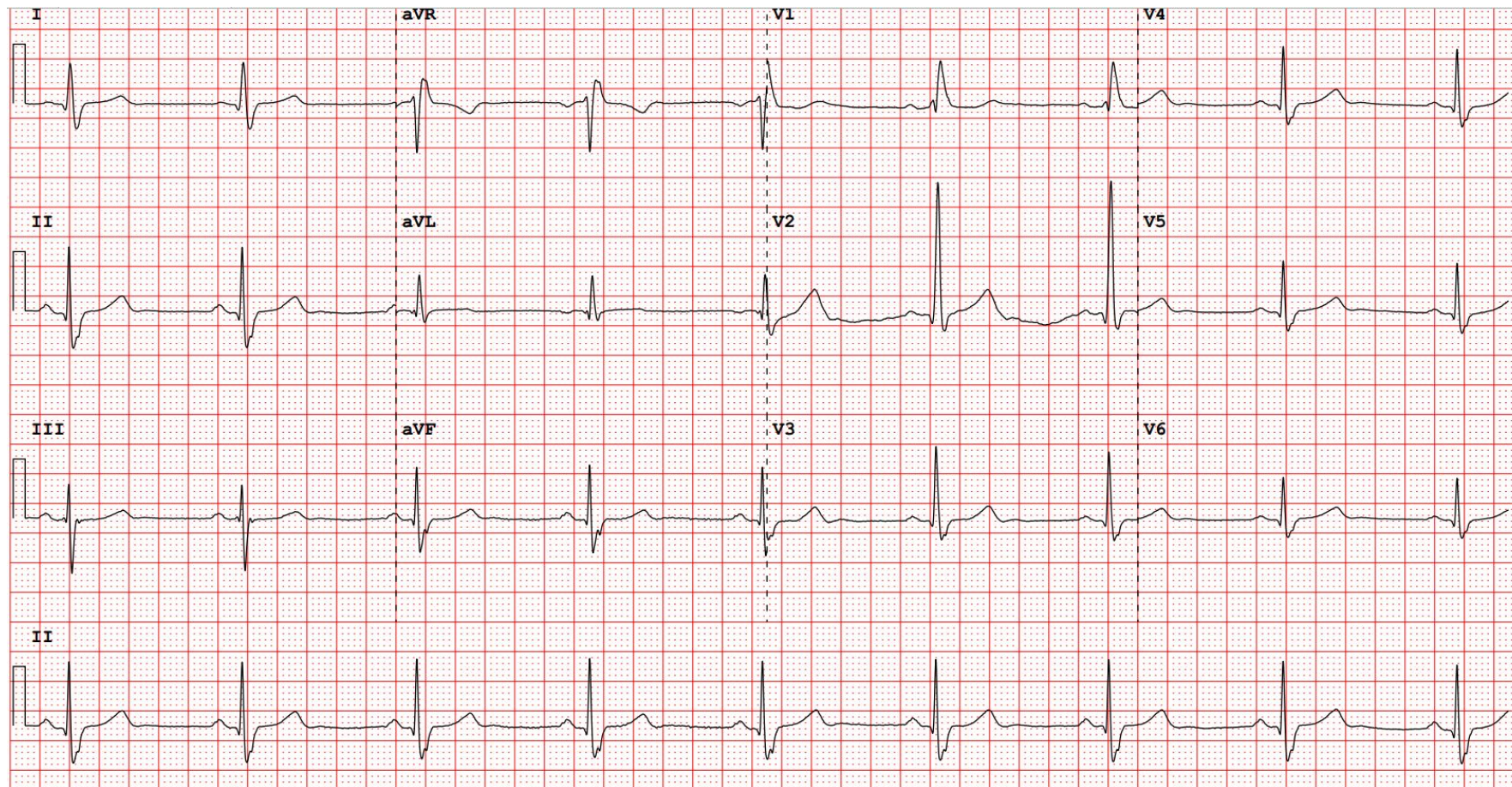
Left Bundle Branch Block



Right Bundle Branch Block



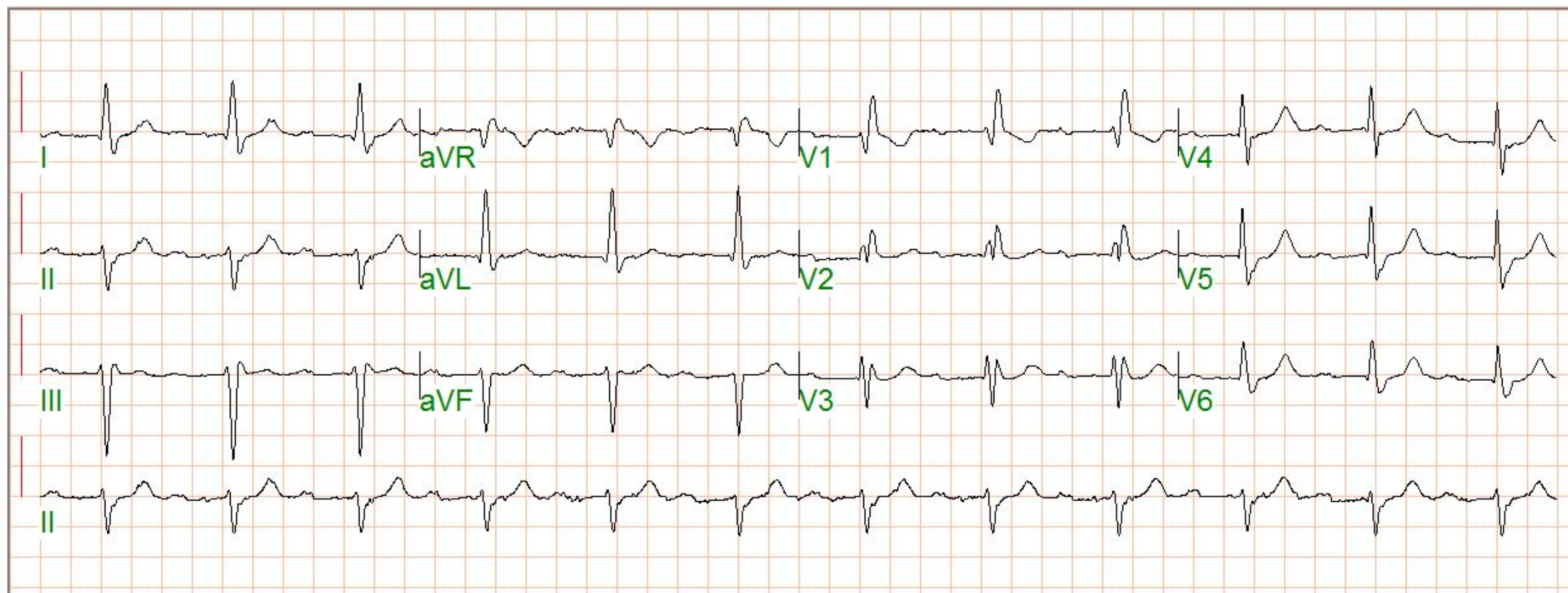
Right Bundle Branch Block



Axis

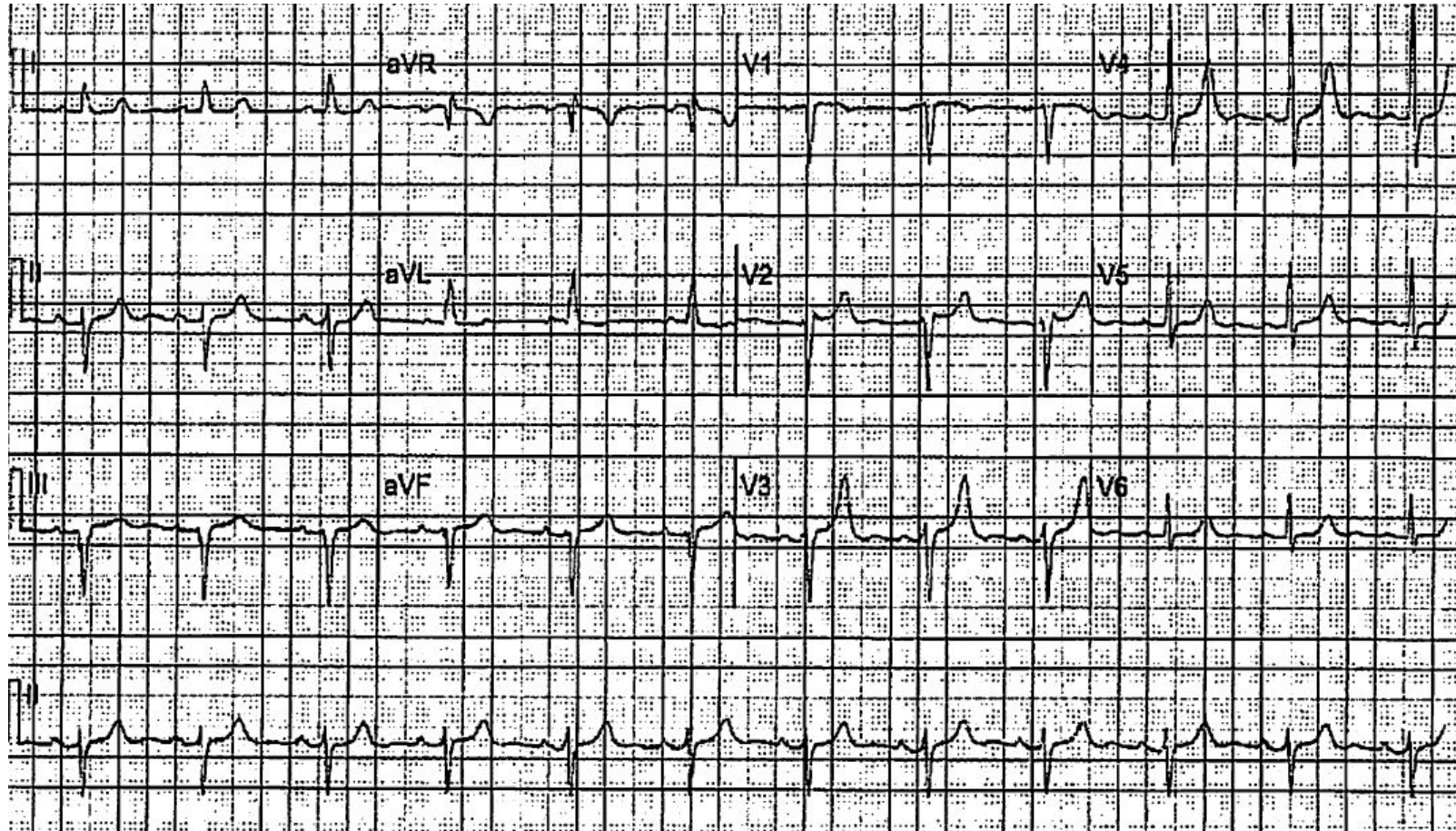
- The overall direction of the electrical forces in the conduction system
- Normal is downward and to the left
- Right axis: conduction has shifted to the right
 - Left posterior fascicular block
 - Dextrocardia
 - Long, thin chest,
 - Anterior MI
 - RA AND LA ARM ELECTRODES SWITCHED
- Left axis: conduction has shifted to the left
 - Left anterior fascicular block
 - Inferior MI
 - LVH
- "No Man's Land": conduction is upward and to the right
 - VT!!

Left Axis



Right Axis

LAFB

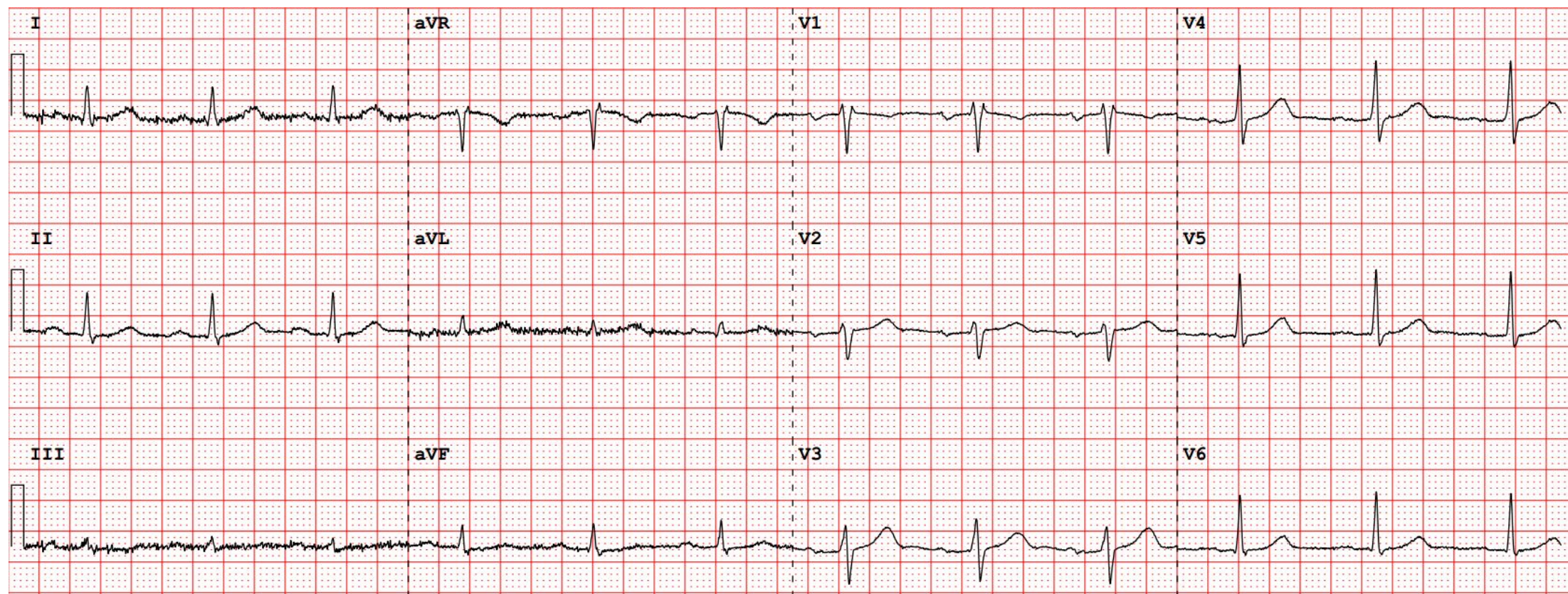


Action Potential

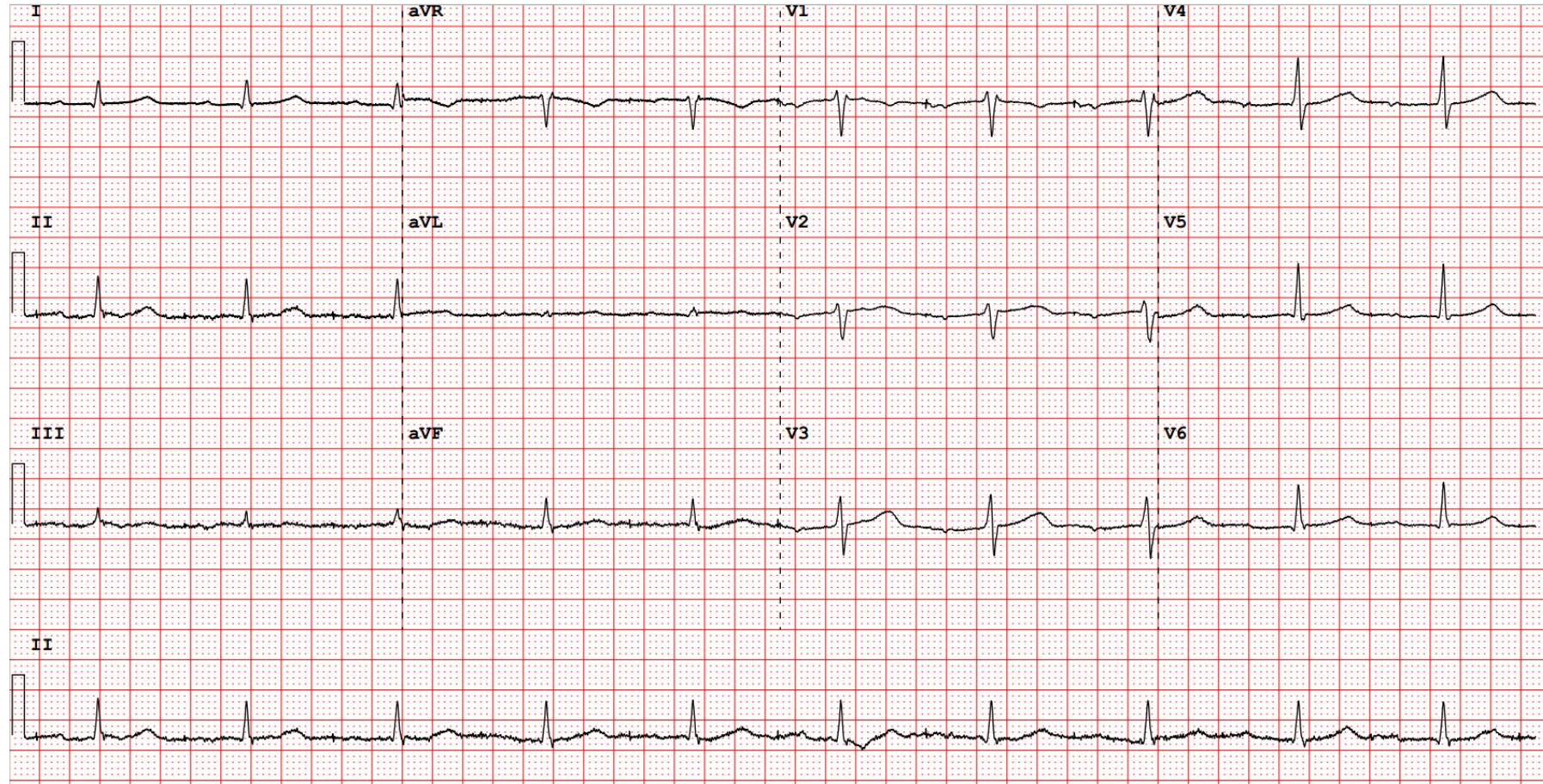
Anti-Arrhythmic Medications

- Class IA
- Class IB
- Class IC
- Class II
- Class III
- Class IV
- Miscellaneous

Sotalol EKG



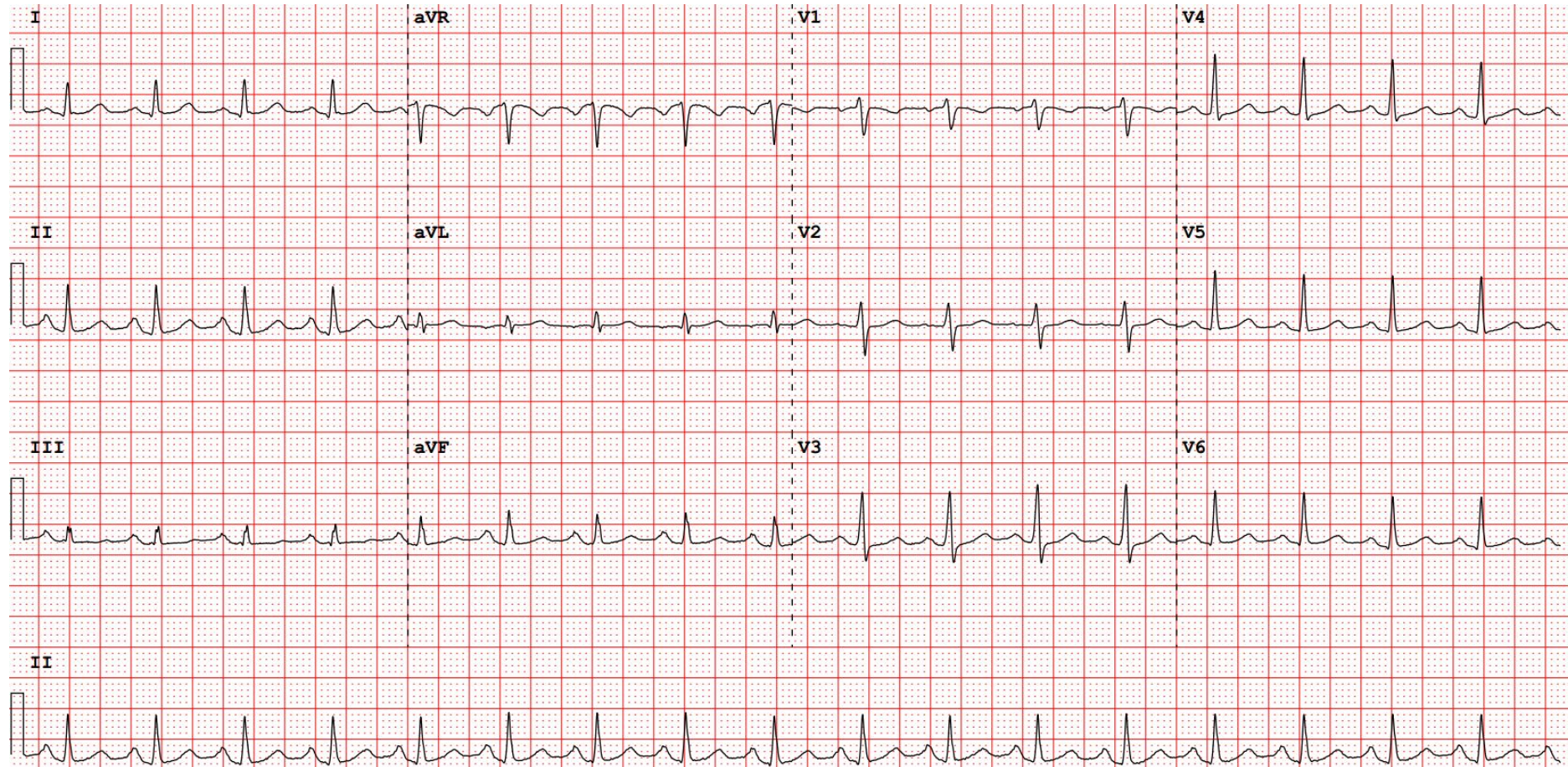
Sotalol EKG



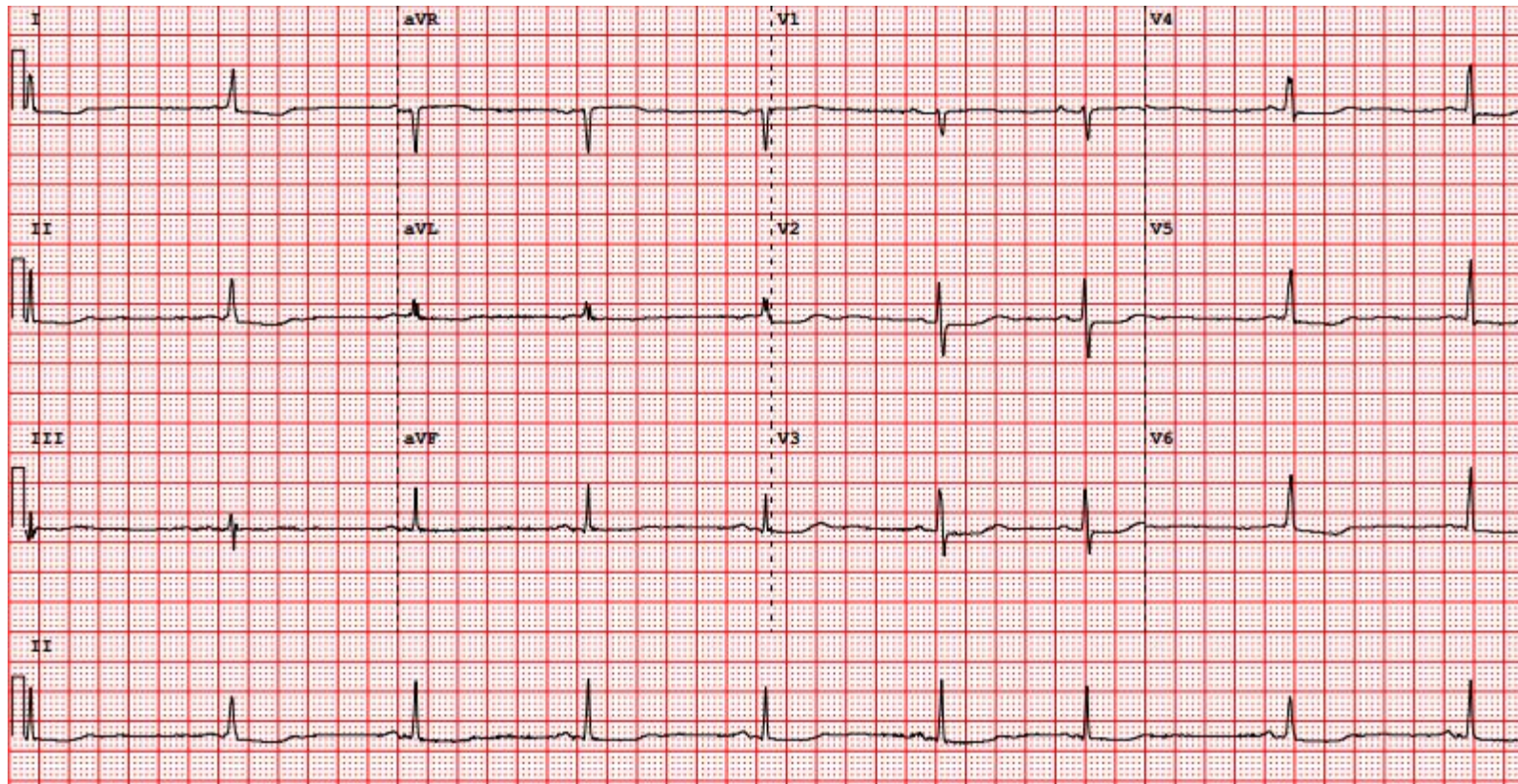
Common Arrhythmias

- Sinus tachycardia
- Sinus Bradycardia
- Atrial Fibrillation
- Atrial Flutter
- VT
- 1st degree AVB
- 2nd degree AVB
 - Type I Wenckebach
 - Type II 2:1
- 3rd degree AVB

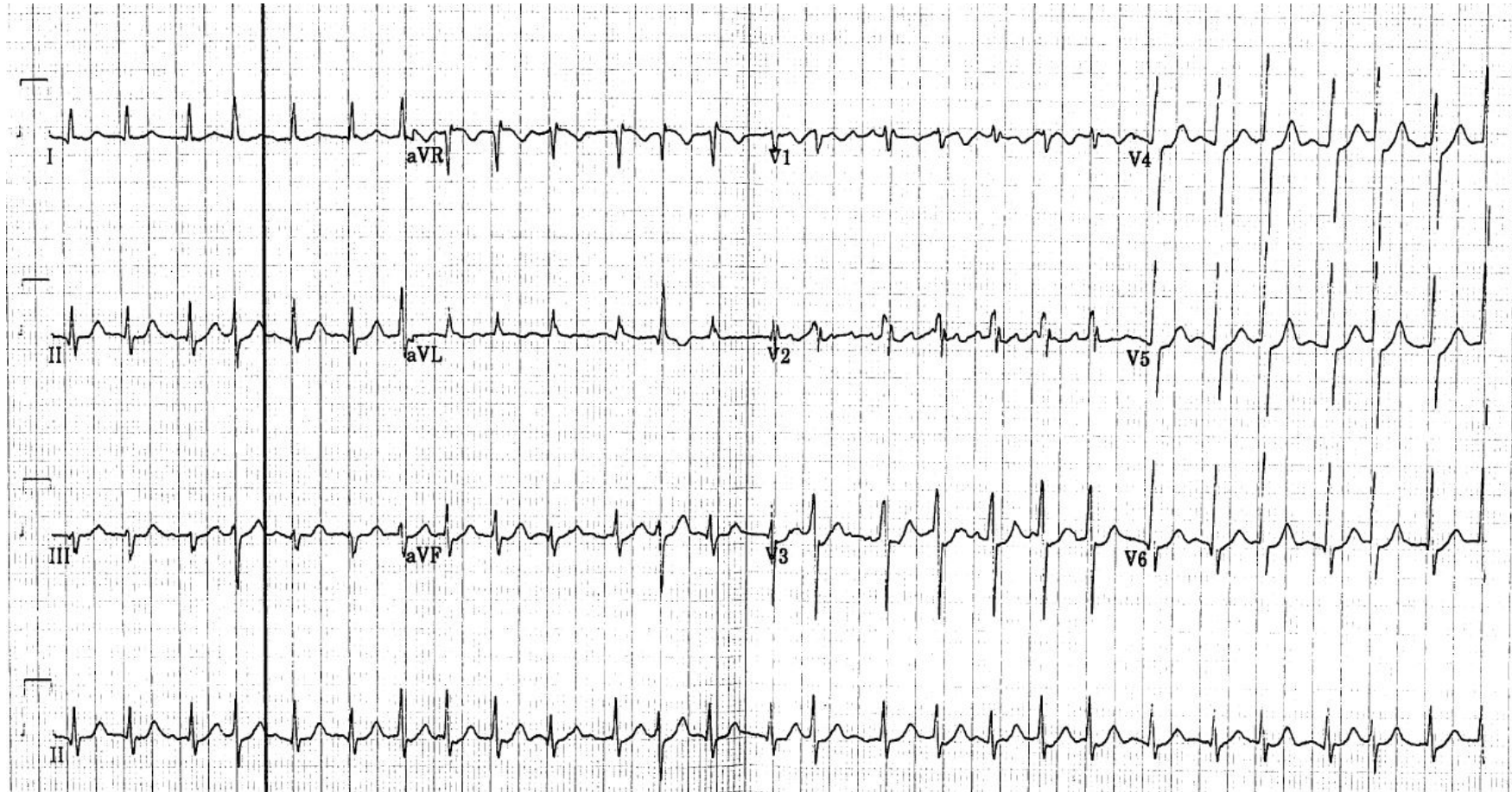
Sinus Tachycardia



Sinus Bradycardia



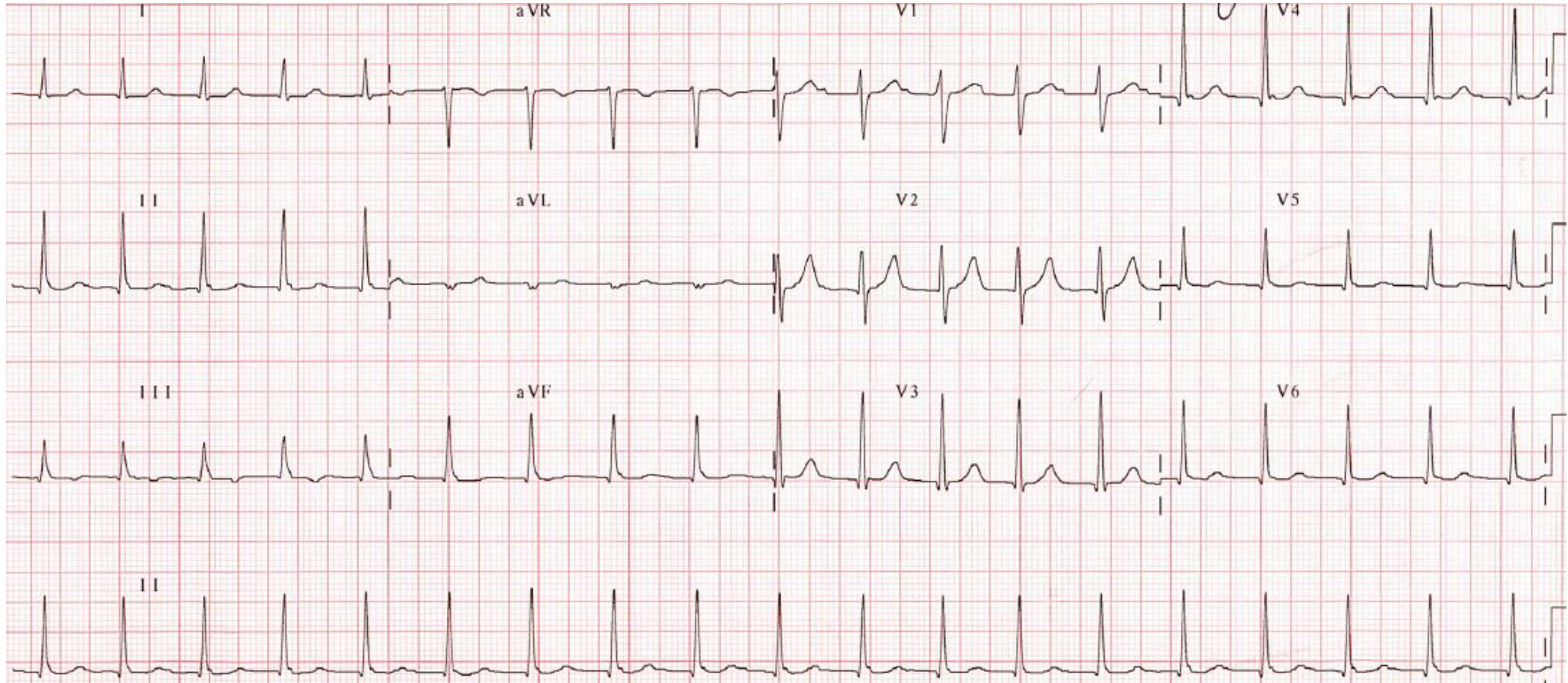
Atrial Fibrillation



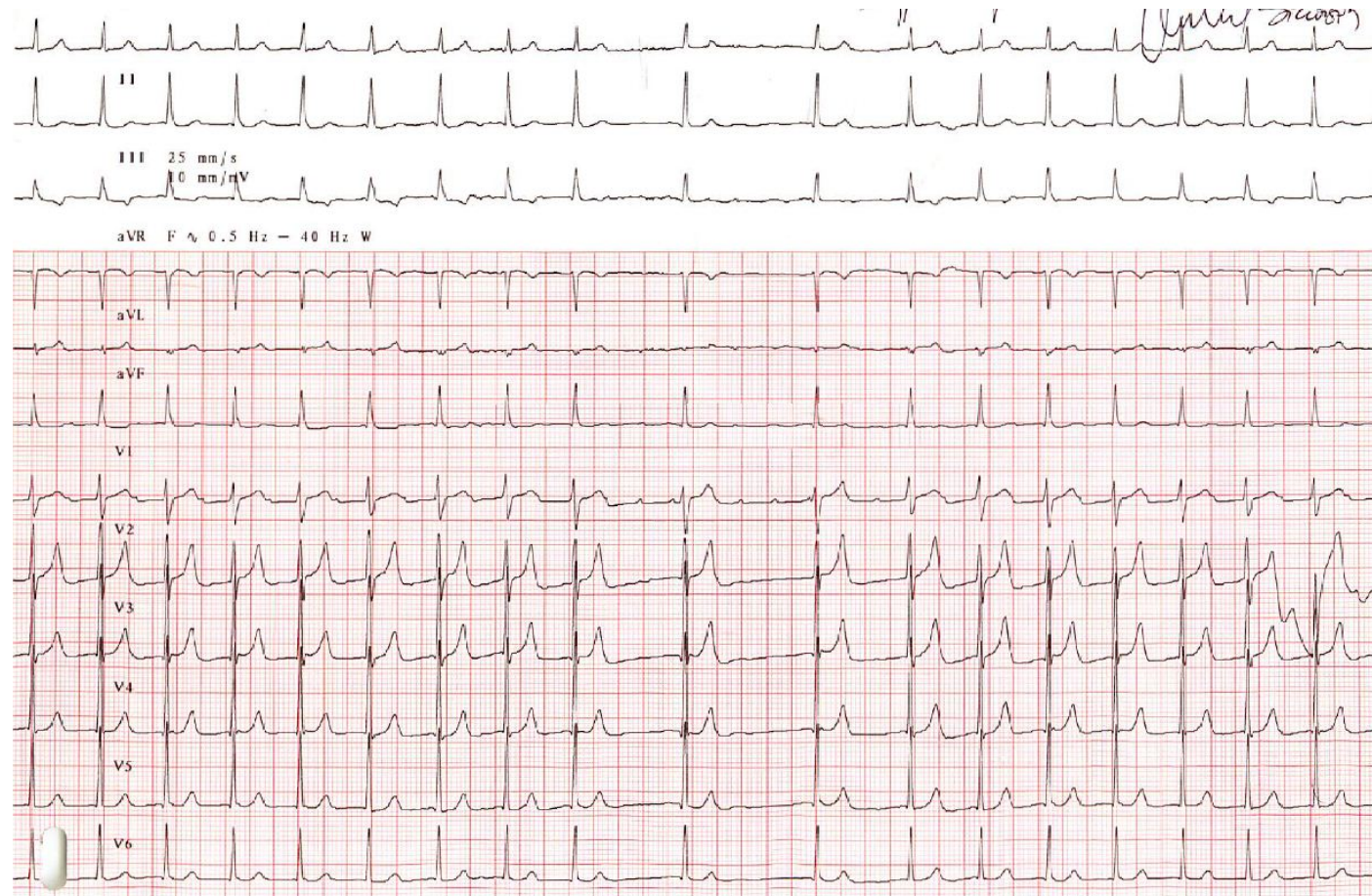
Atrial Flutter



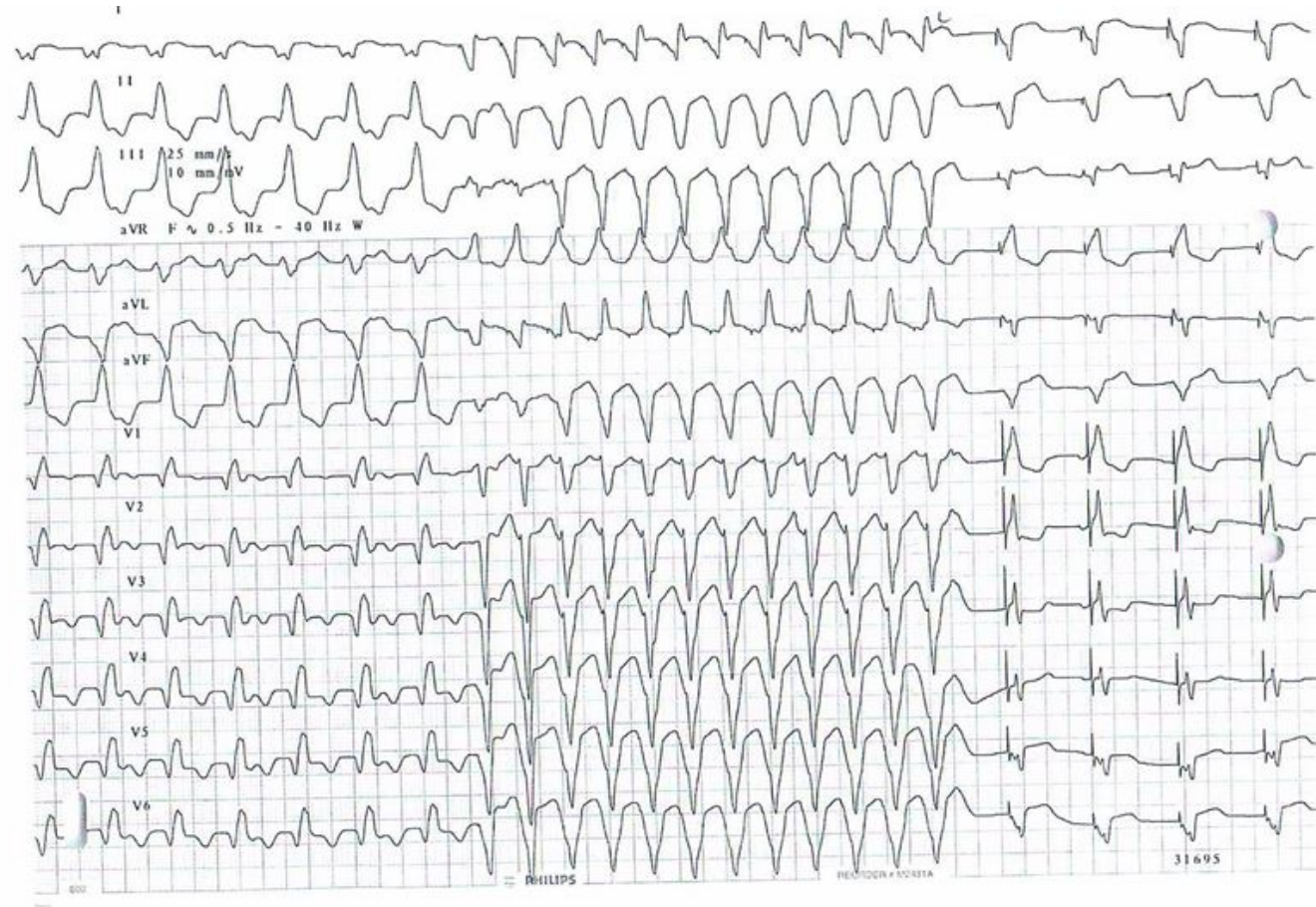
Atypical Atrial Flutter



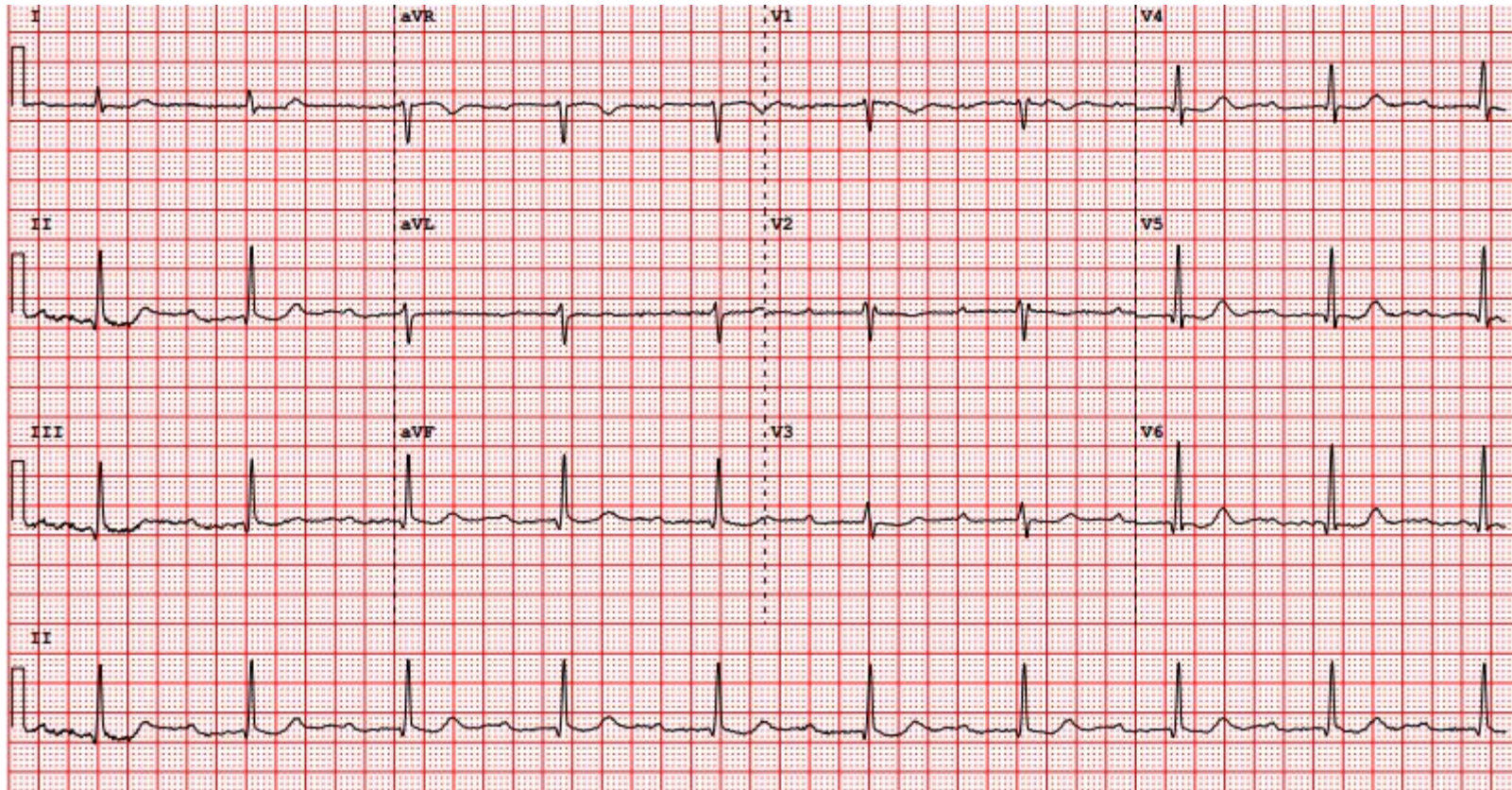
Adenosine for diagnosing tachyarrhythmias



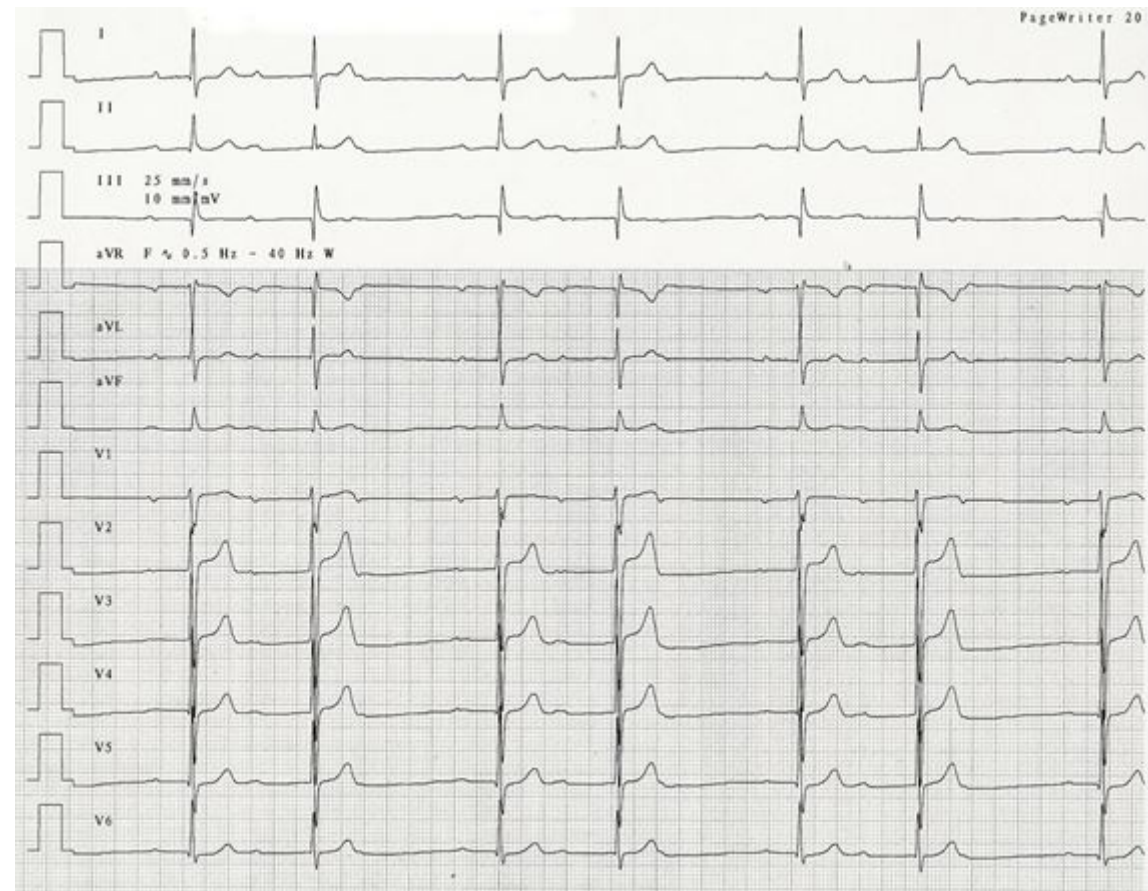
VT



1st Degree AVB

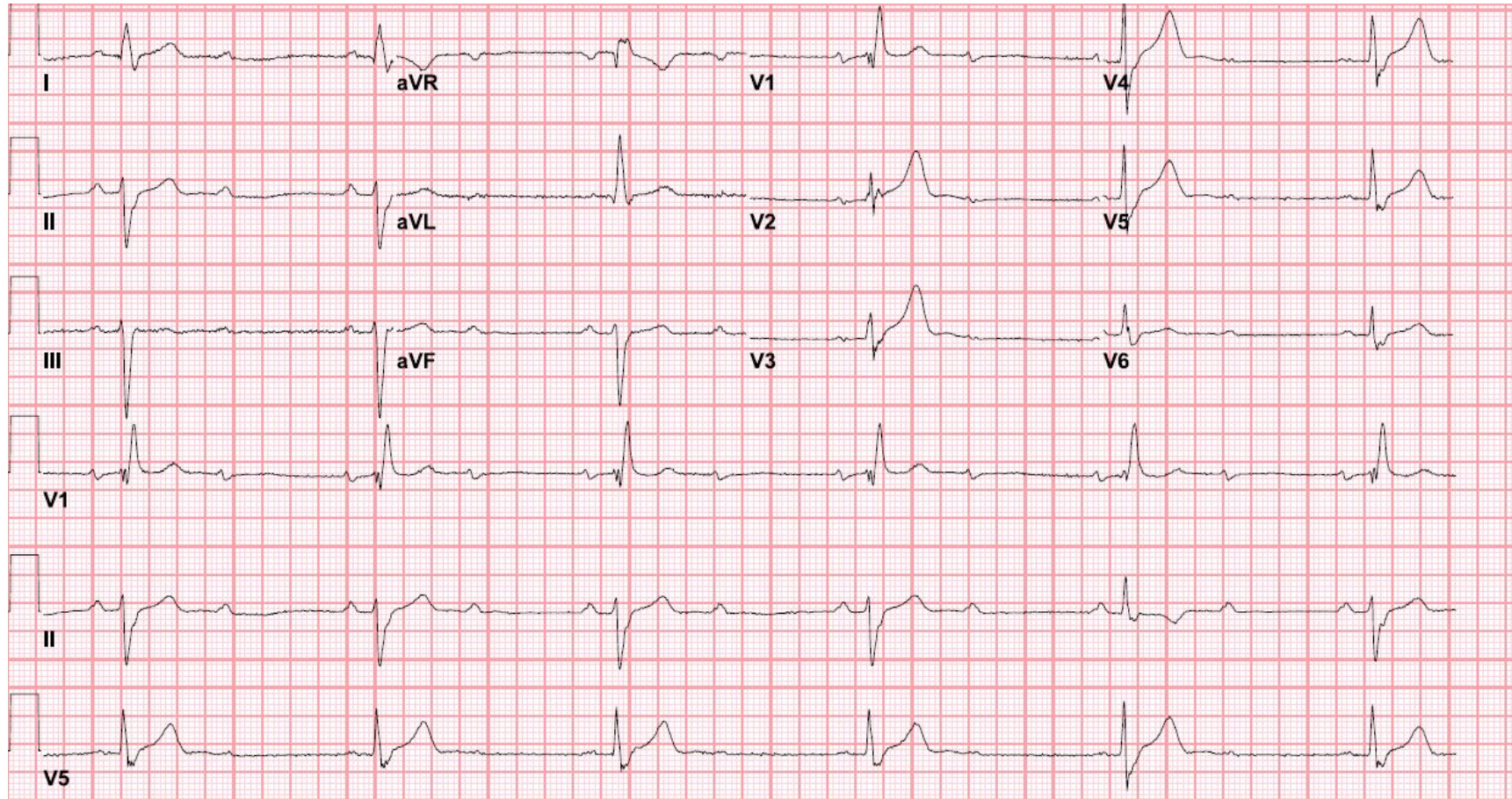


2nd degree Type I Wenckebach



2nd Degree AVB Type II

3rd Degree AVB



Pacing

- Atrial pacing
- RV pacing
- CRT pacing
- His bundle pacing

Atrial Pacing