

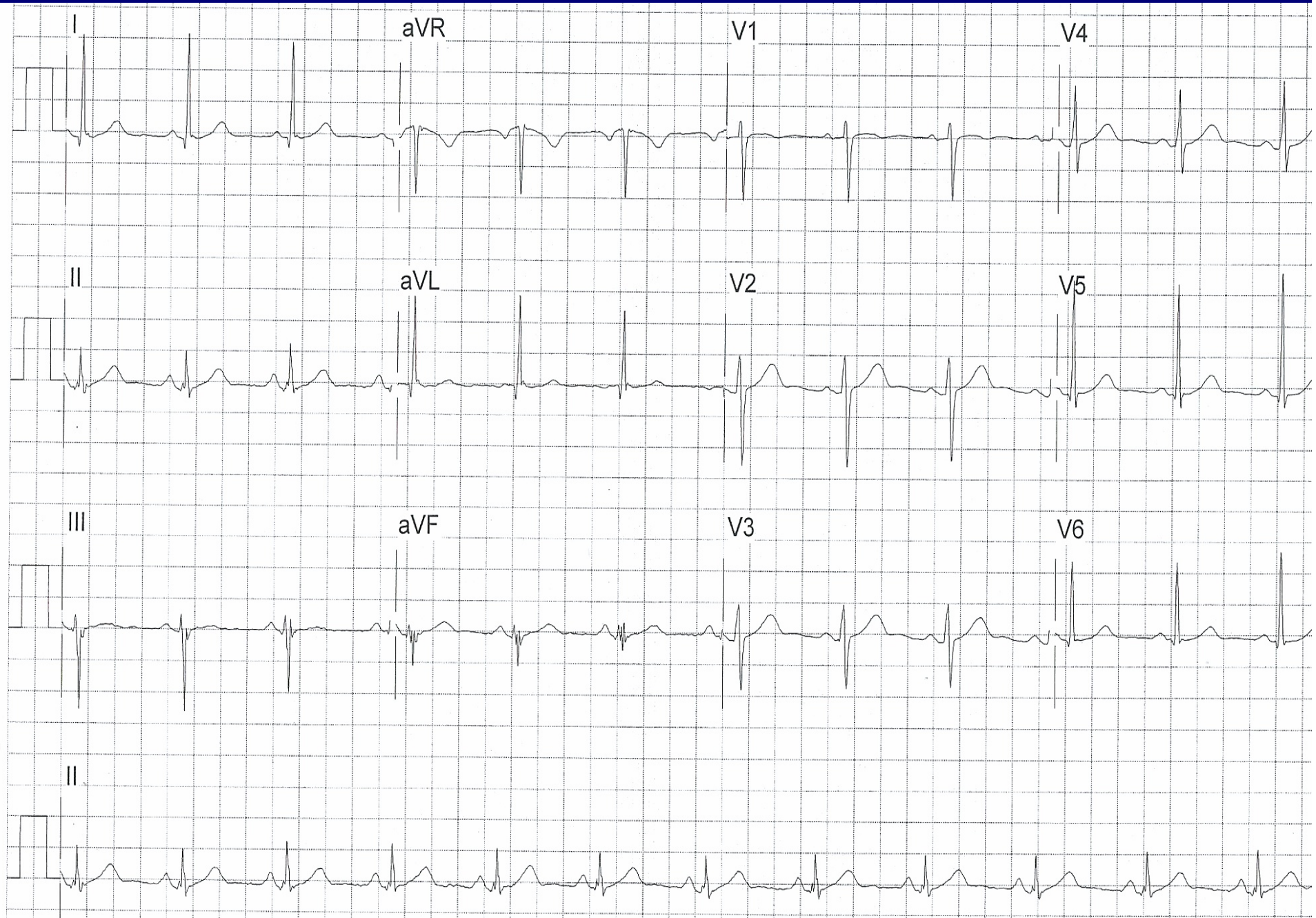
The Normal ECG

- Correct paper speed 25mm/s
- Calibrated machine
- Correct lead positioning
- Minimal background interference
- 3 complexes/lead
- Rhythm strip

Normal ECG

- Rate
- Rhythm
- Intervals PR, QRS (BBB), QT
- Axis
- Other changes

Normal ECG



ECGs - Rate

Normal

50 – 90

Fast

>90

Slow

<50

ECG - Normal Rate

Rhythm

Regular

Sinus

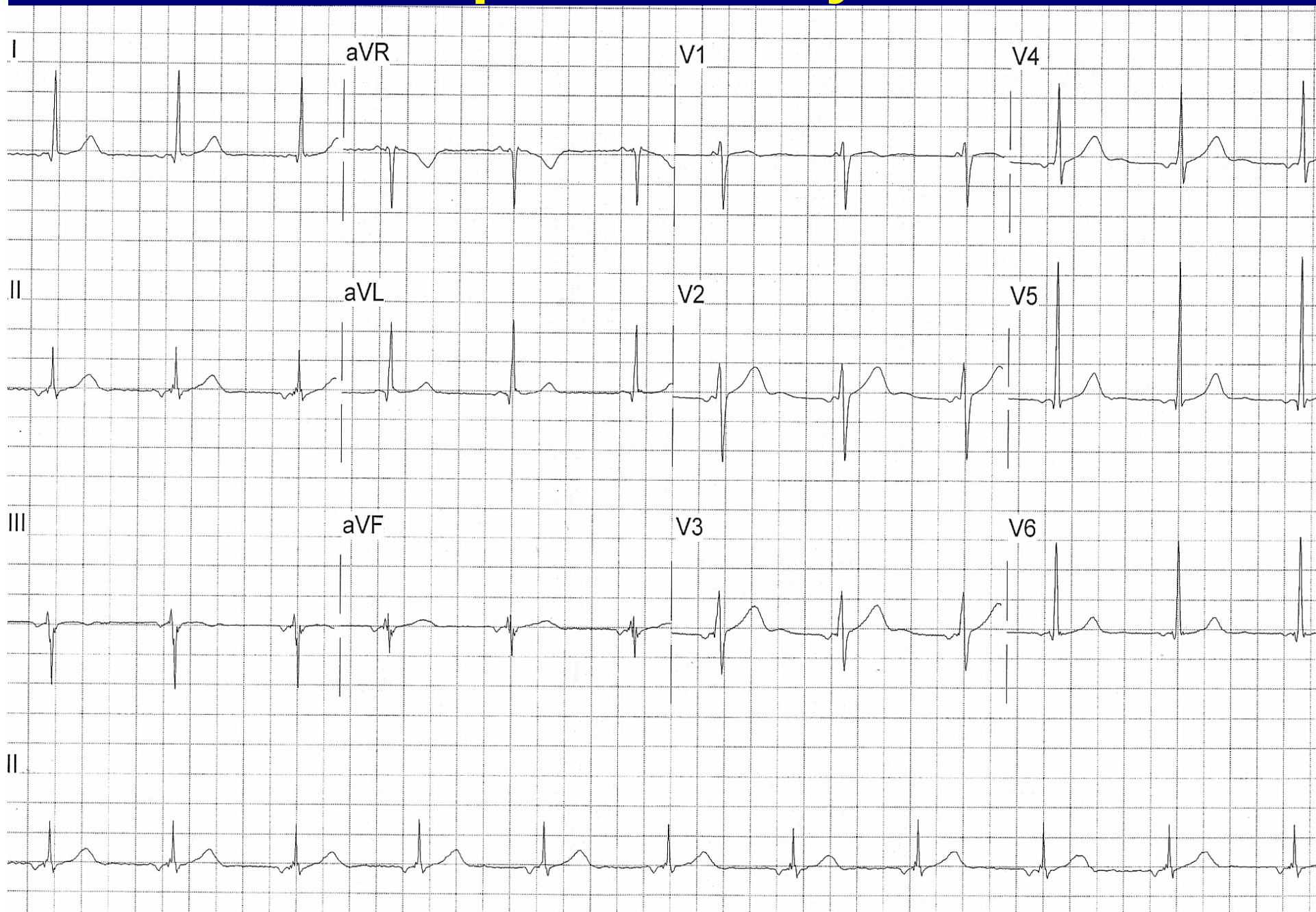
Ectopic atrial

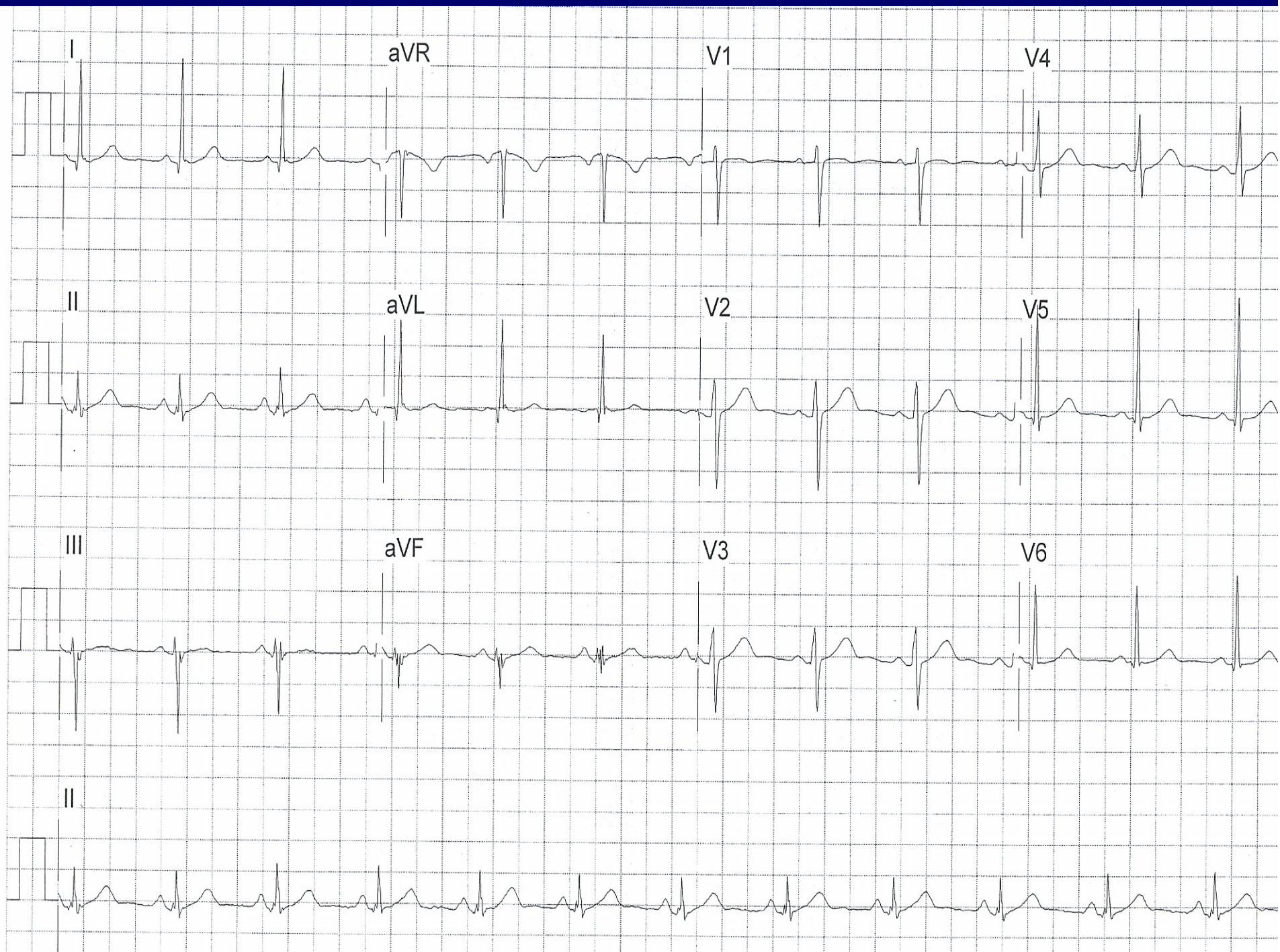
Irregular

Ectopics

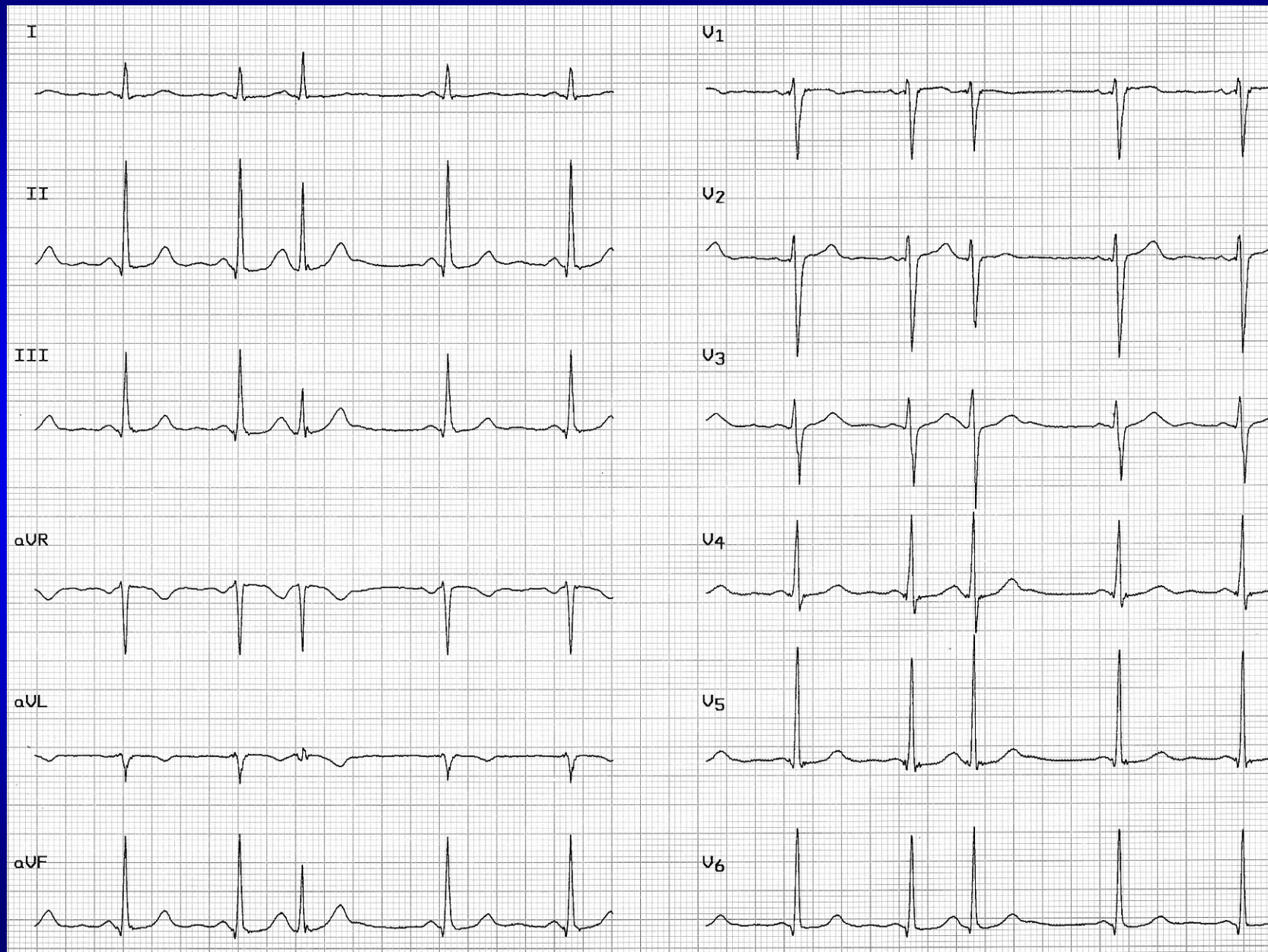
Atrial fibrillation

Ectopic atrial rhythm





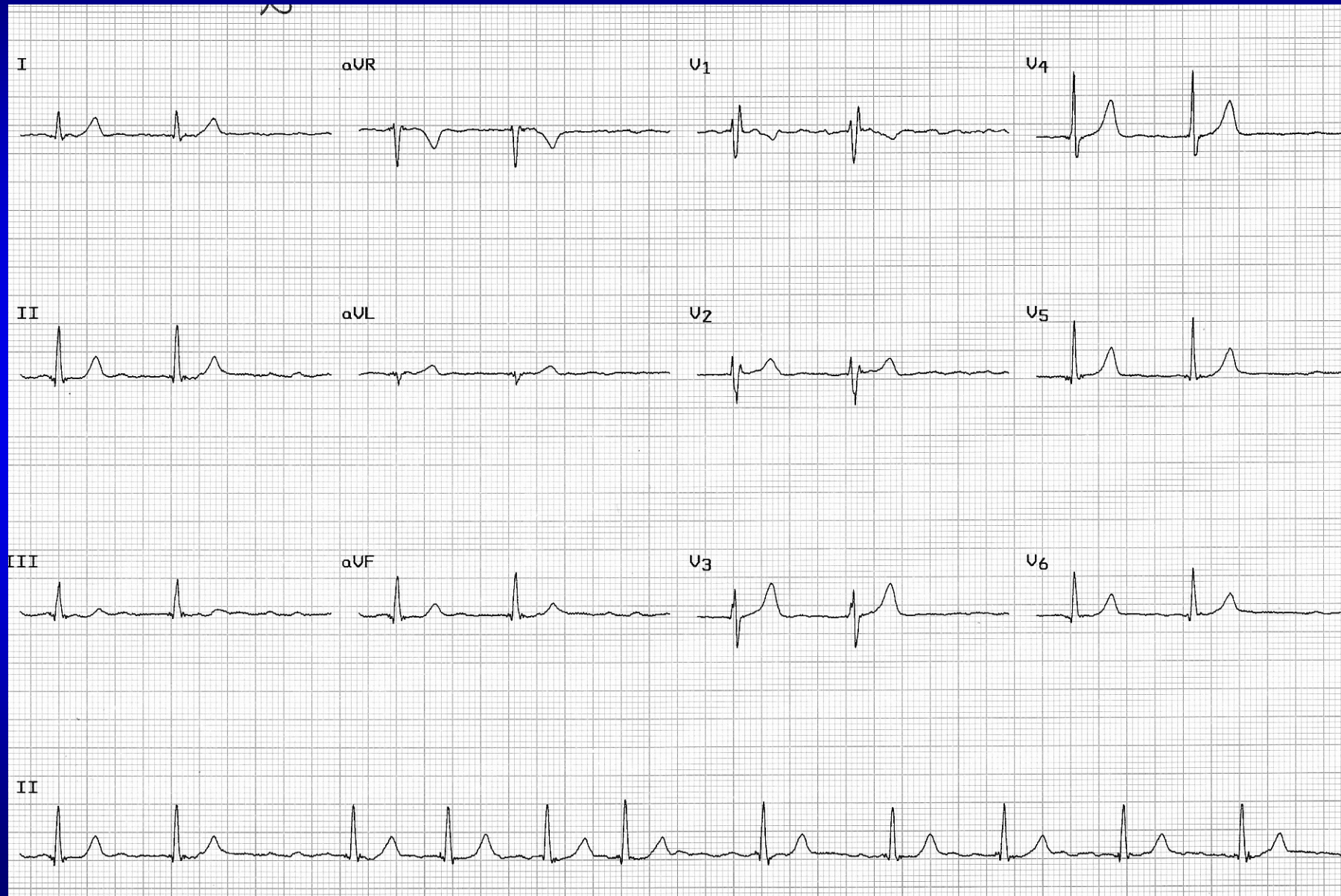
APB



VPBs



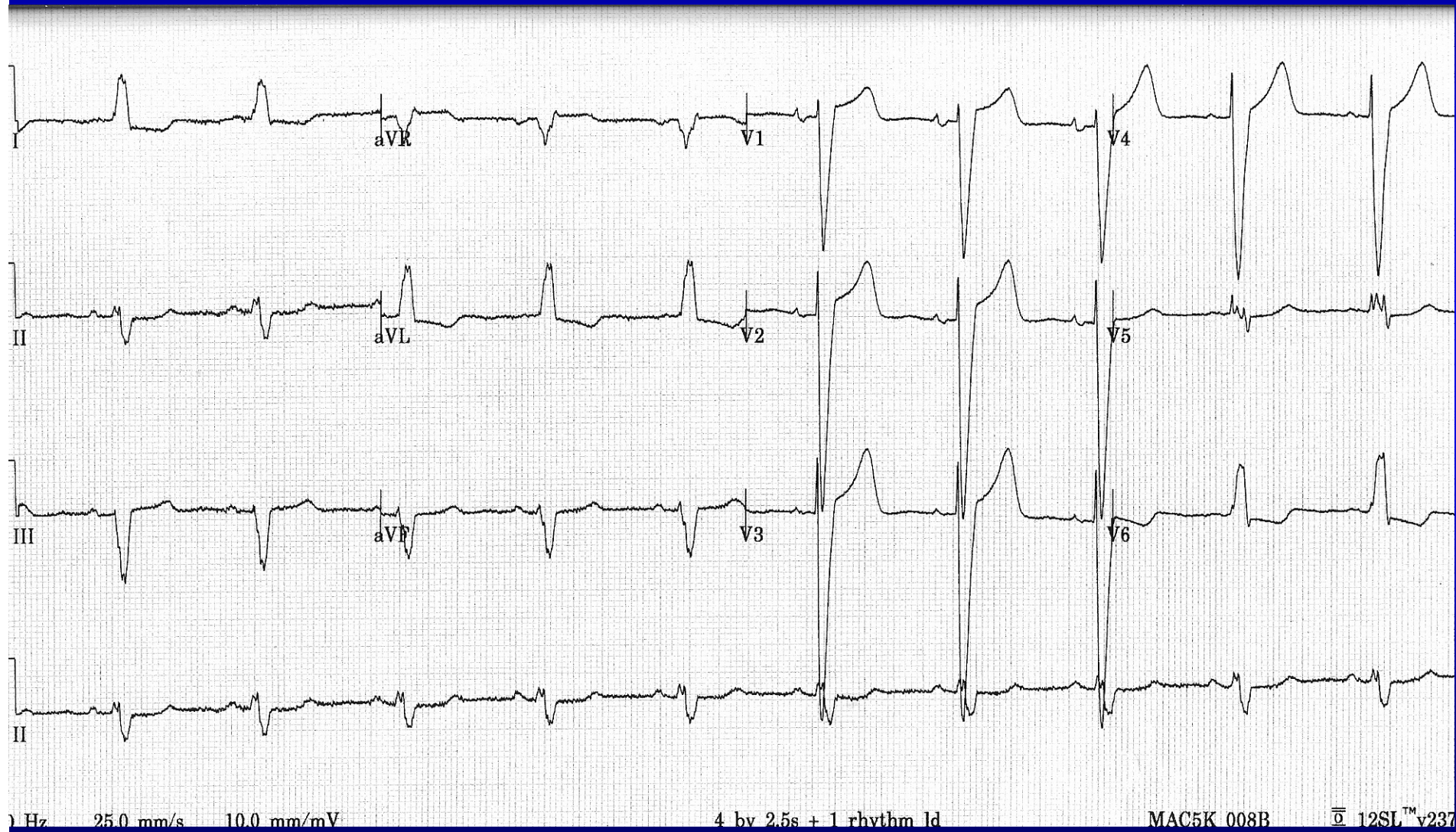
Atrial Fibrillation



Intervals

- Is the PR interval normal?
- Prolonged 1°HB
- Is the QRS normal? (0.12s)
 - Prolonged LBBB/RBBB
- Is the QT normal?

LBBB



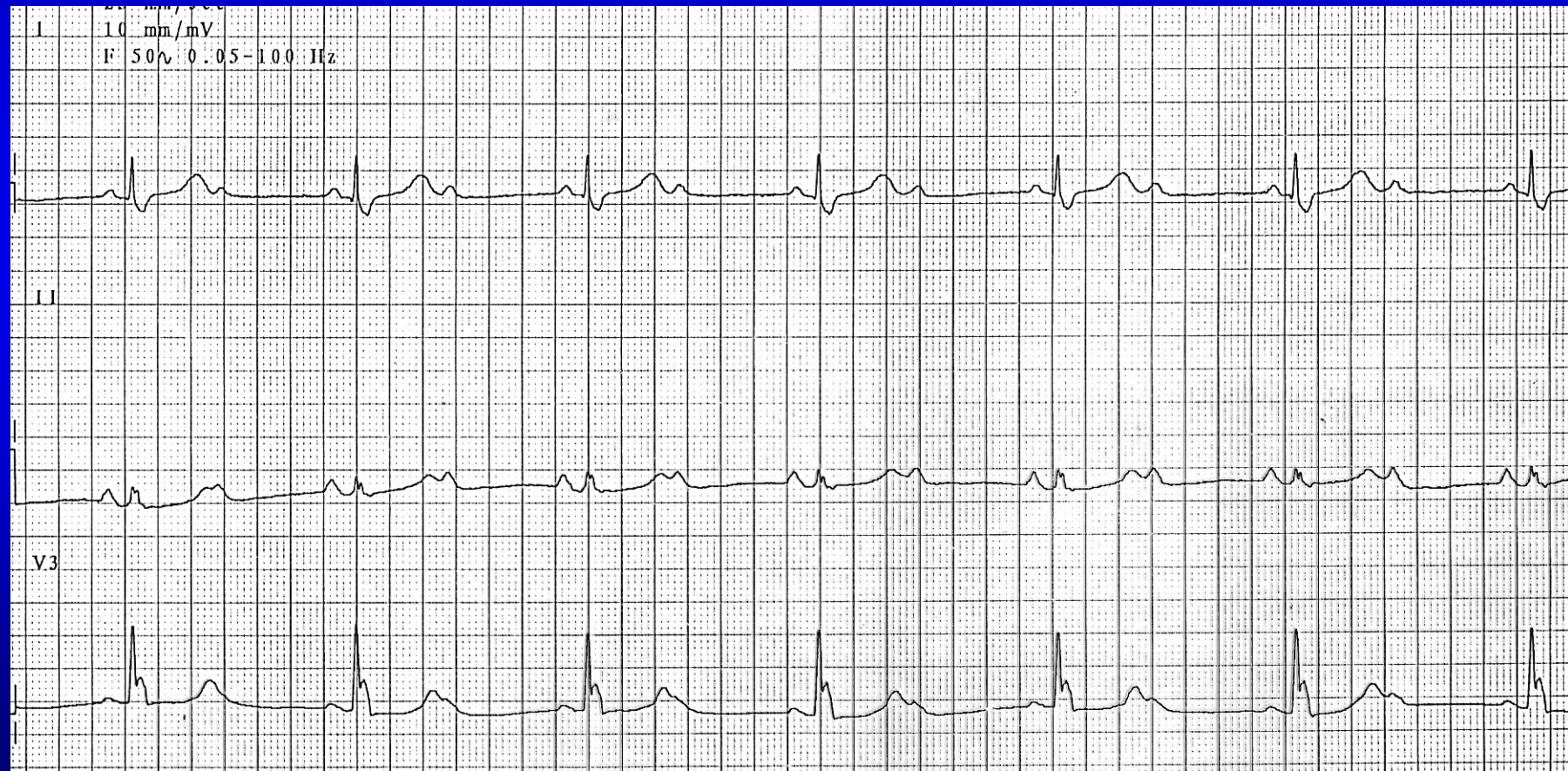
RBBB LAH 1°HB



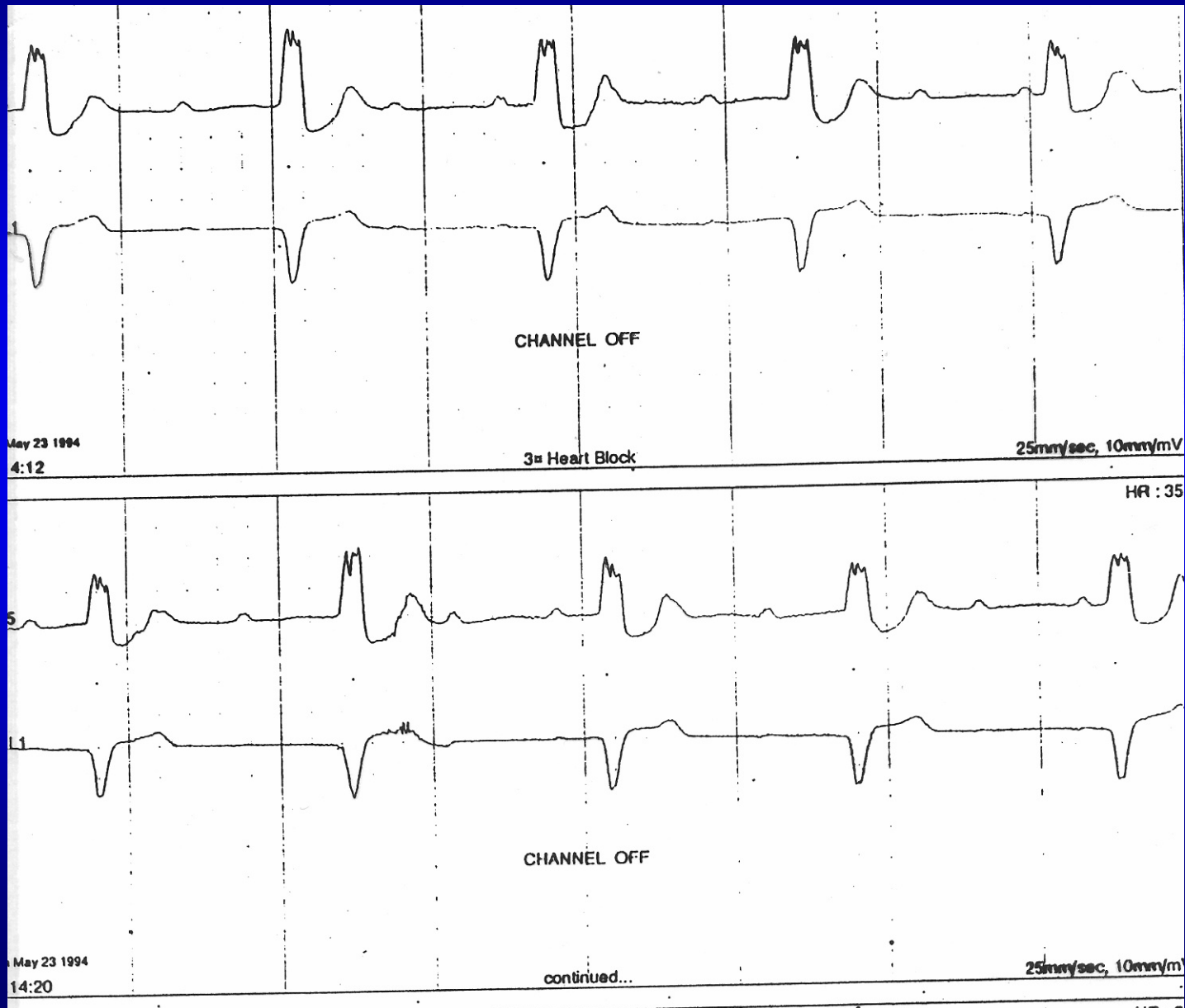
Bradycardia

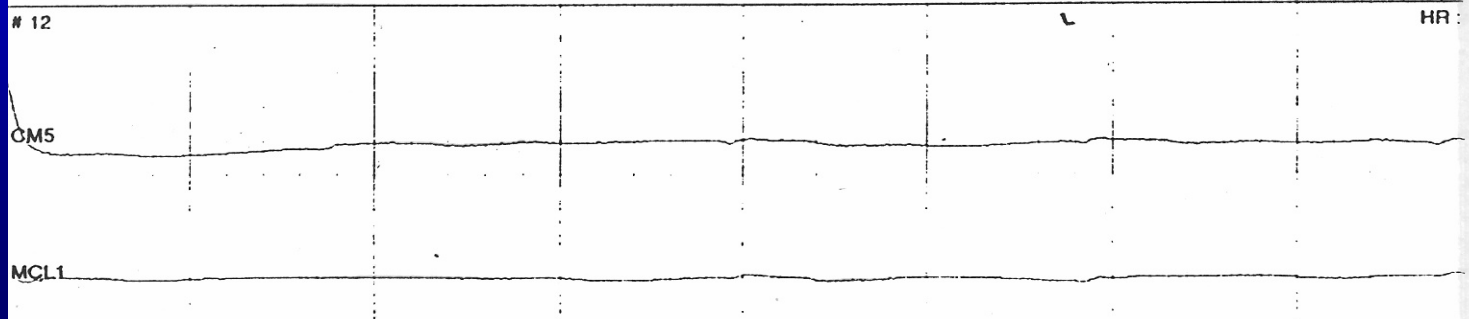
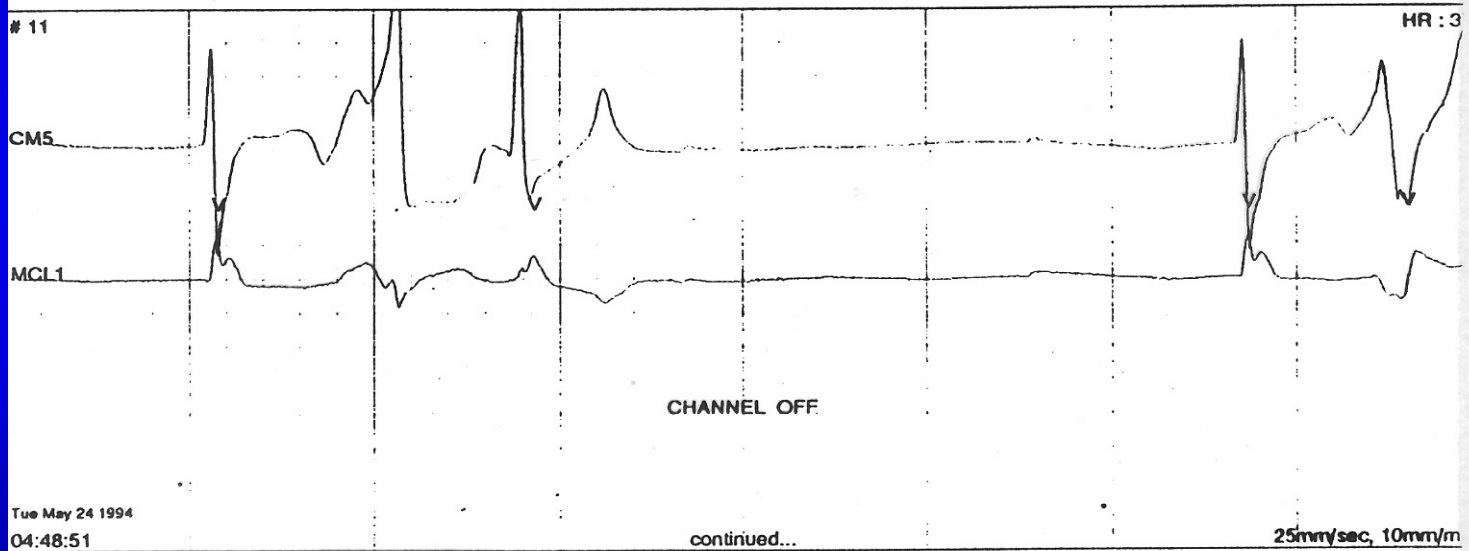
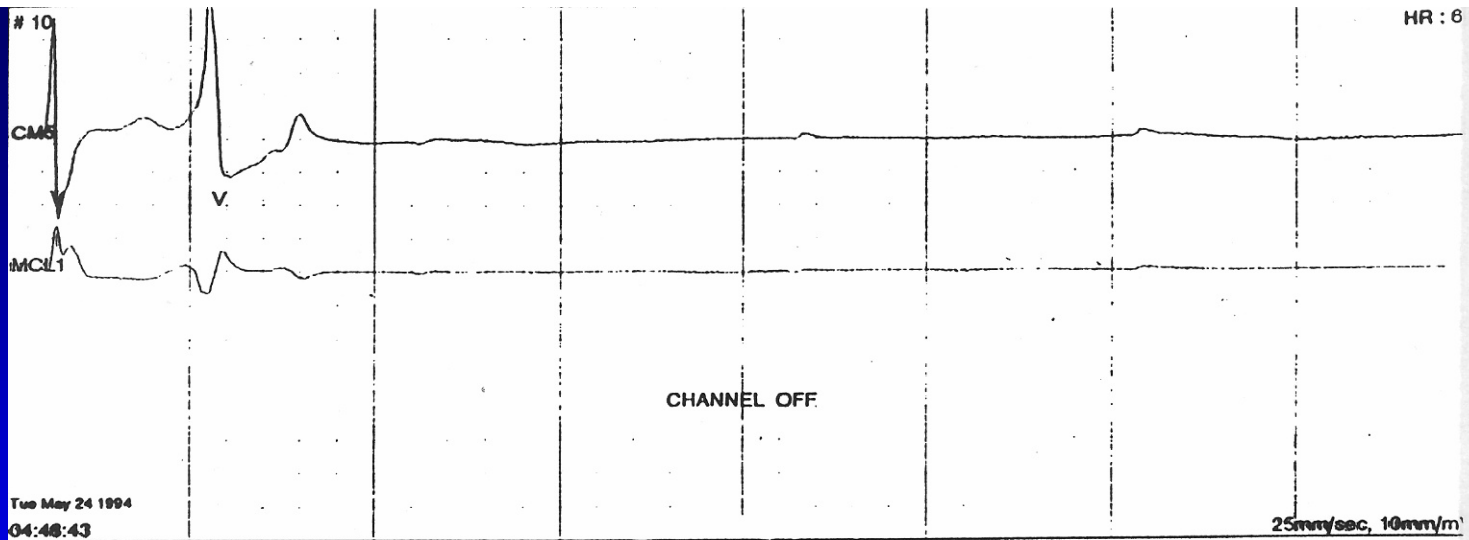
- Sinus bradycardia
- Heart Block

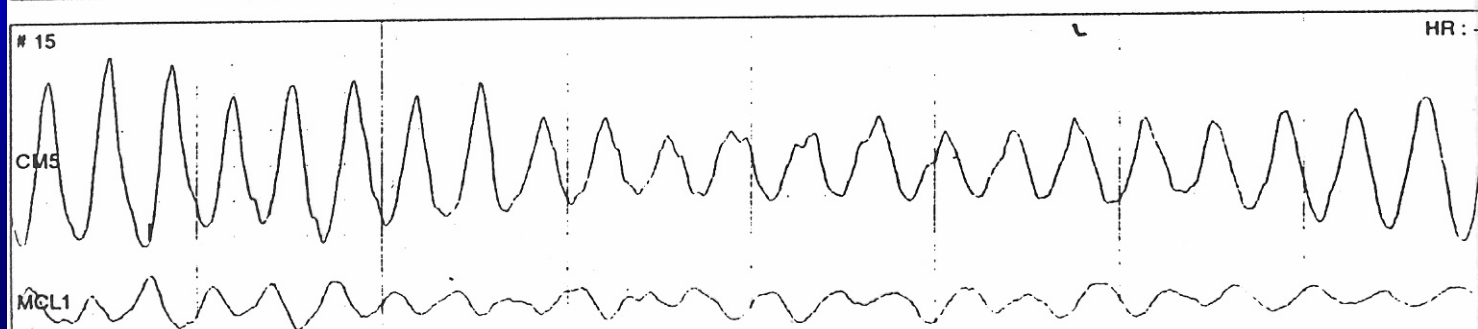
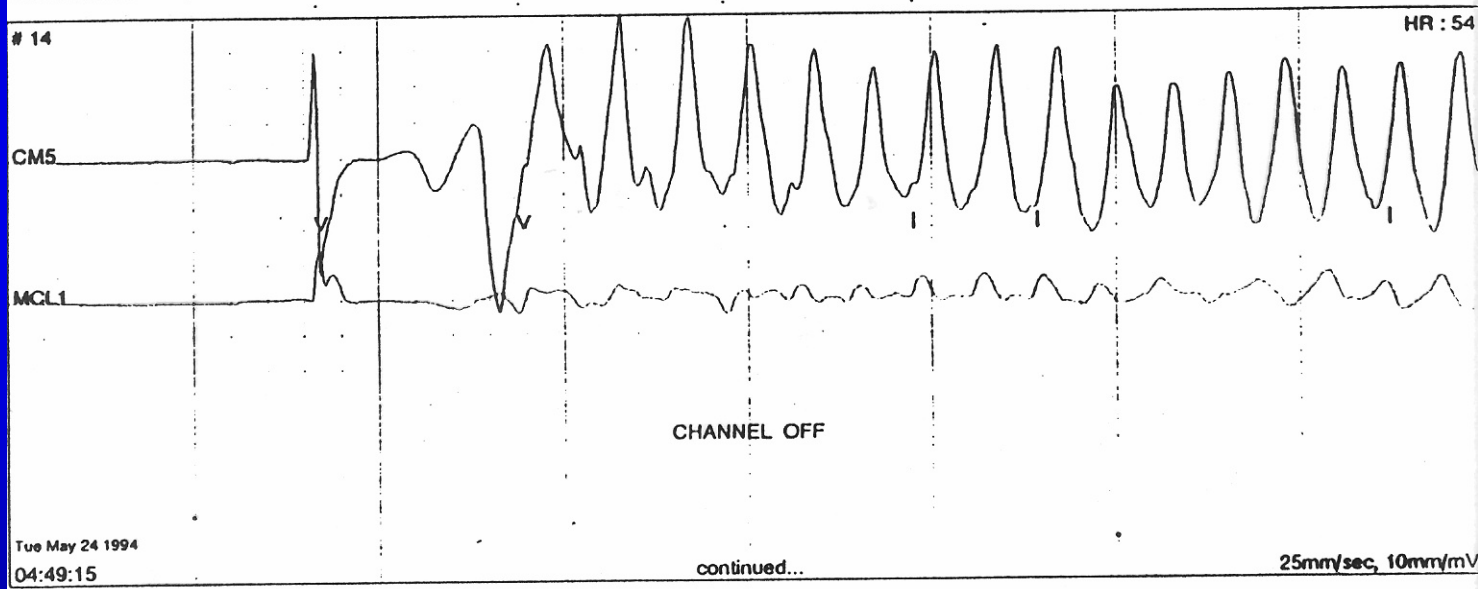
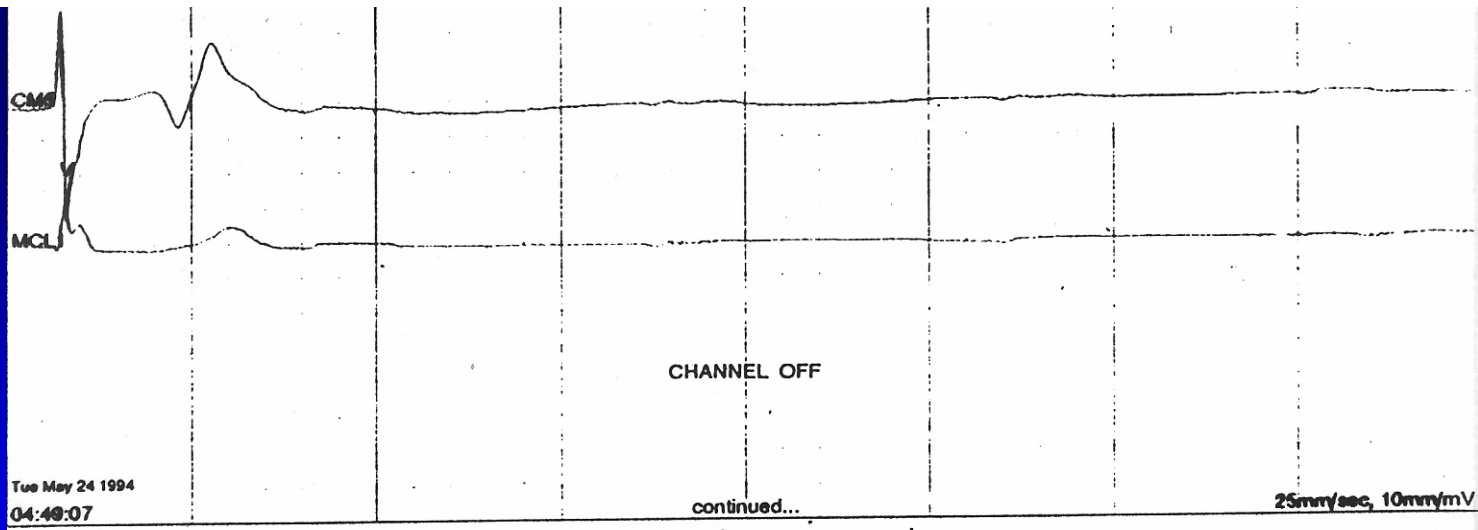
2nd Degree Heart Block



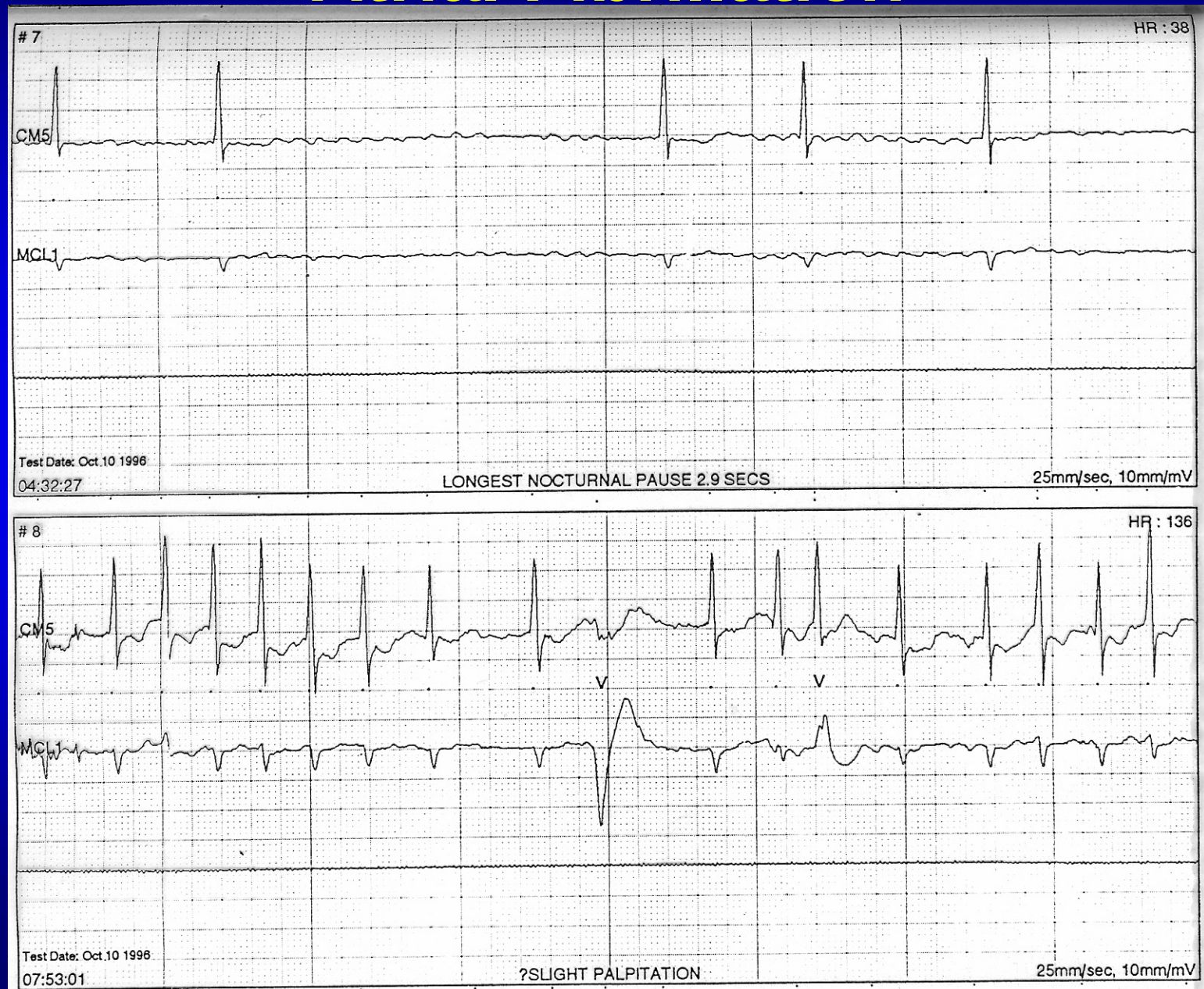
Complete Heart Block



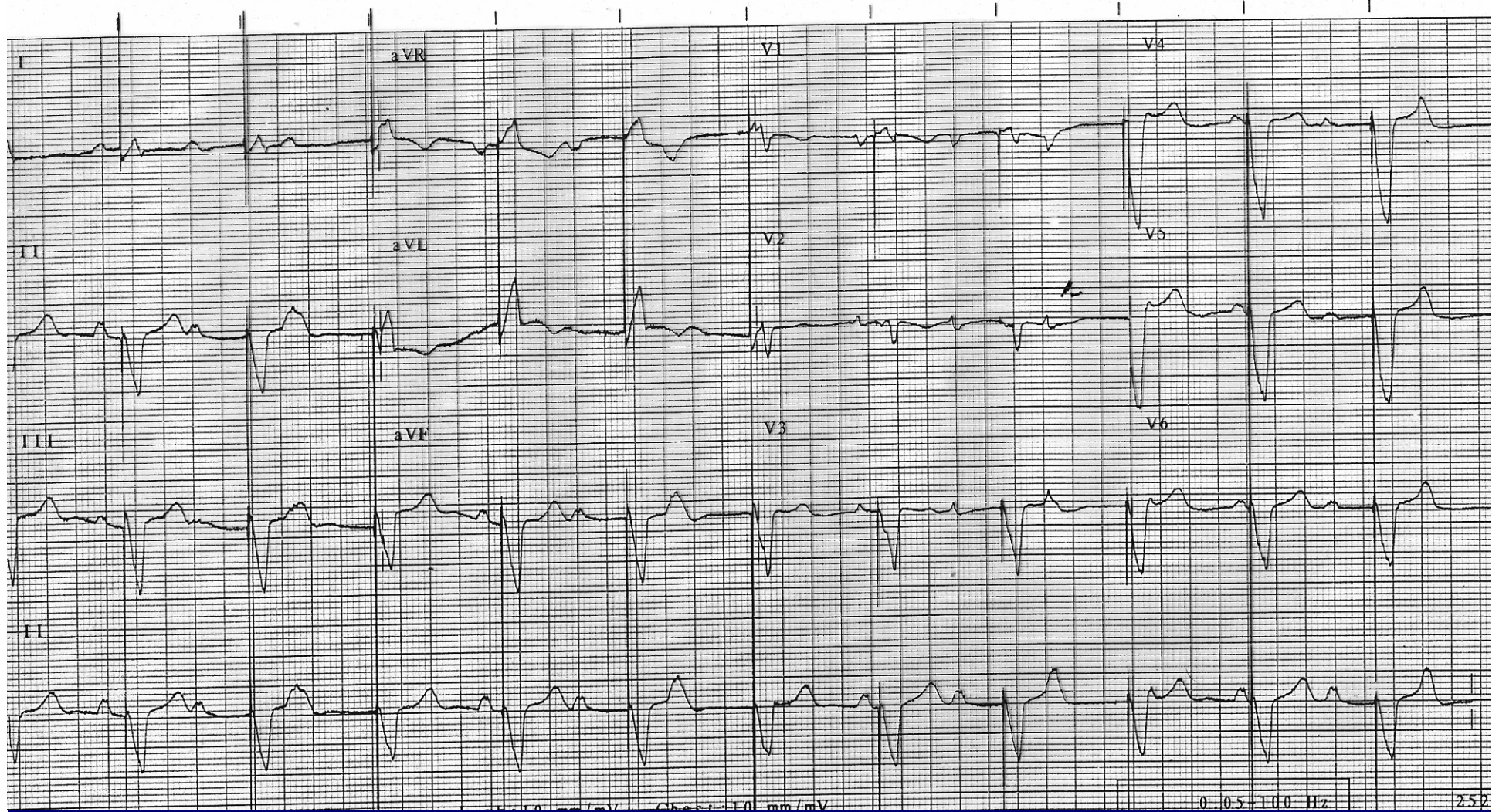




Atrial Fibrillation



Ventricular Pacemaker



ECGs - Fast Rate Narrow Complex

Regular

Sinus tachycardia (appropriate or inappropriate)

Ectopic atrial tachycardia

SVT (re-entrant tachycardia)

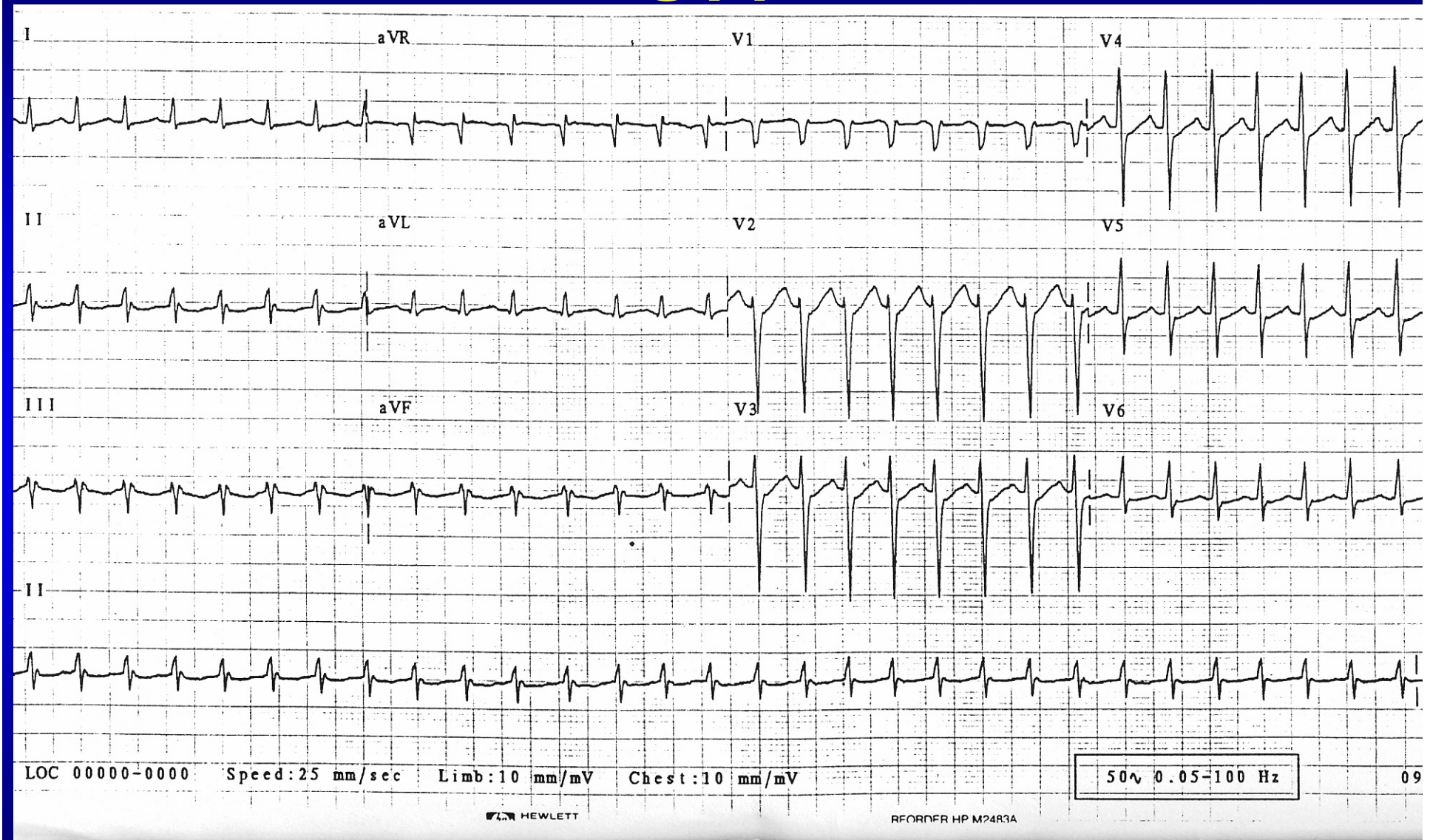
Atrial flutter

Irregular

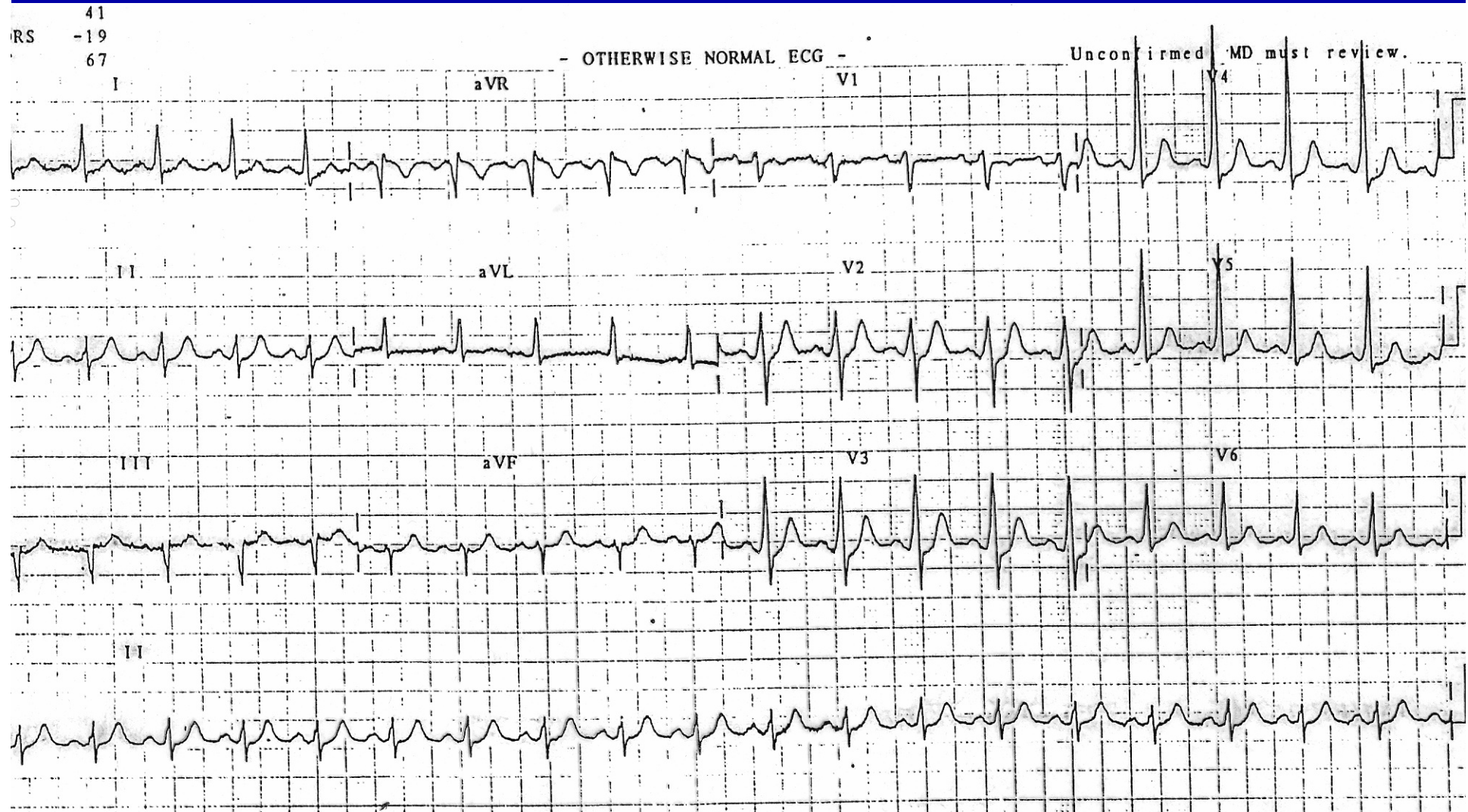
Atrial fibrillation

Atrial flutter with variable block

SVT



Post Adenosine



Rate 134 . Junctional tachycardia, rate 134.....Absent P waves, rate ≥ 100
PR 0 . Nonspecific Inferior ST depression.....ST -0.10 mV II,III,aVF
QRSD 89
QT 313
QTc 467

--Axis--

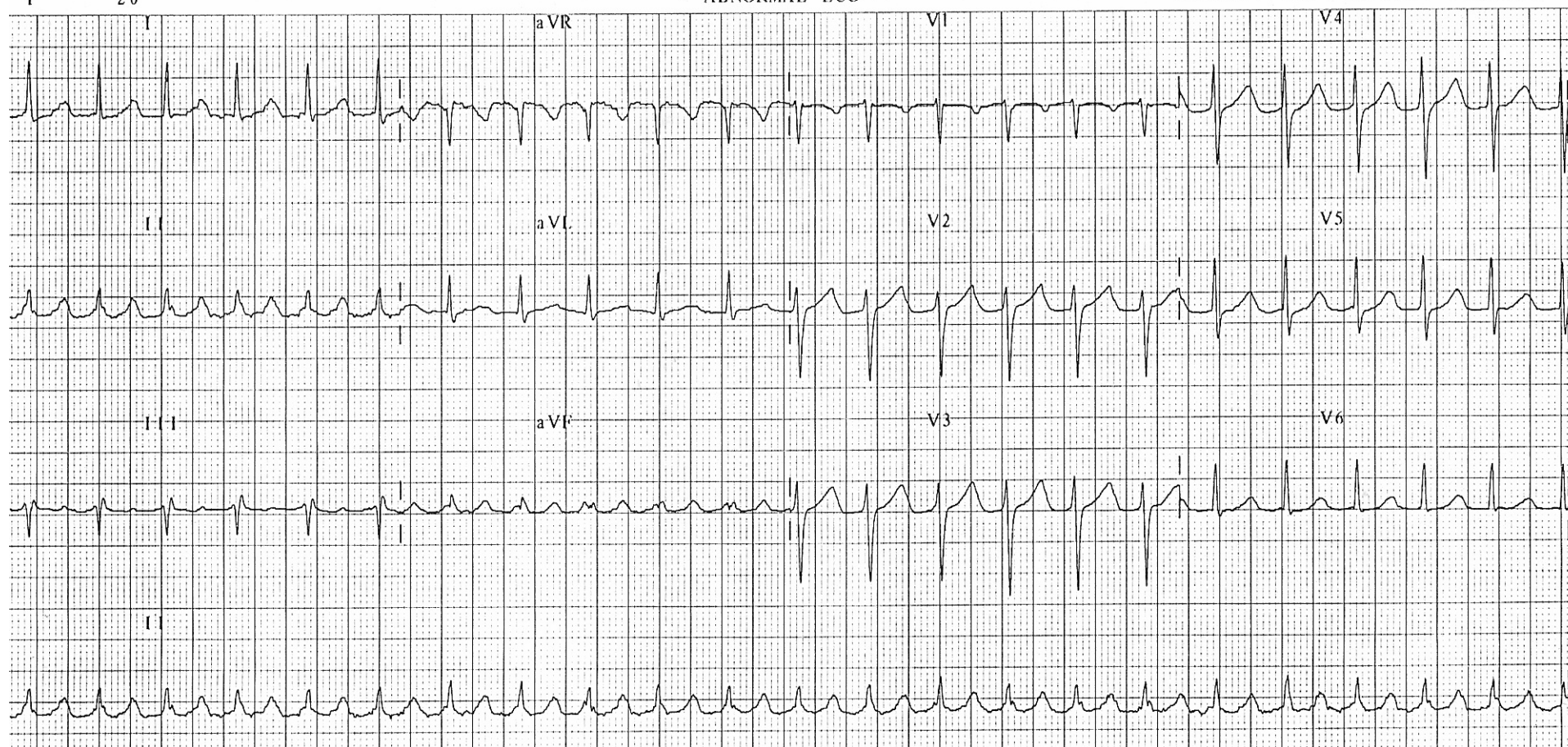
P

QRS 14

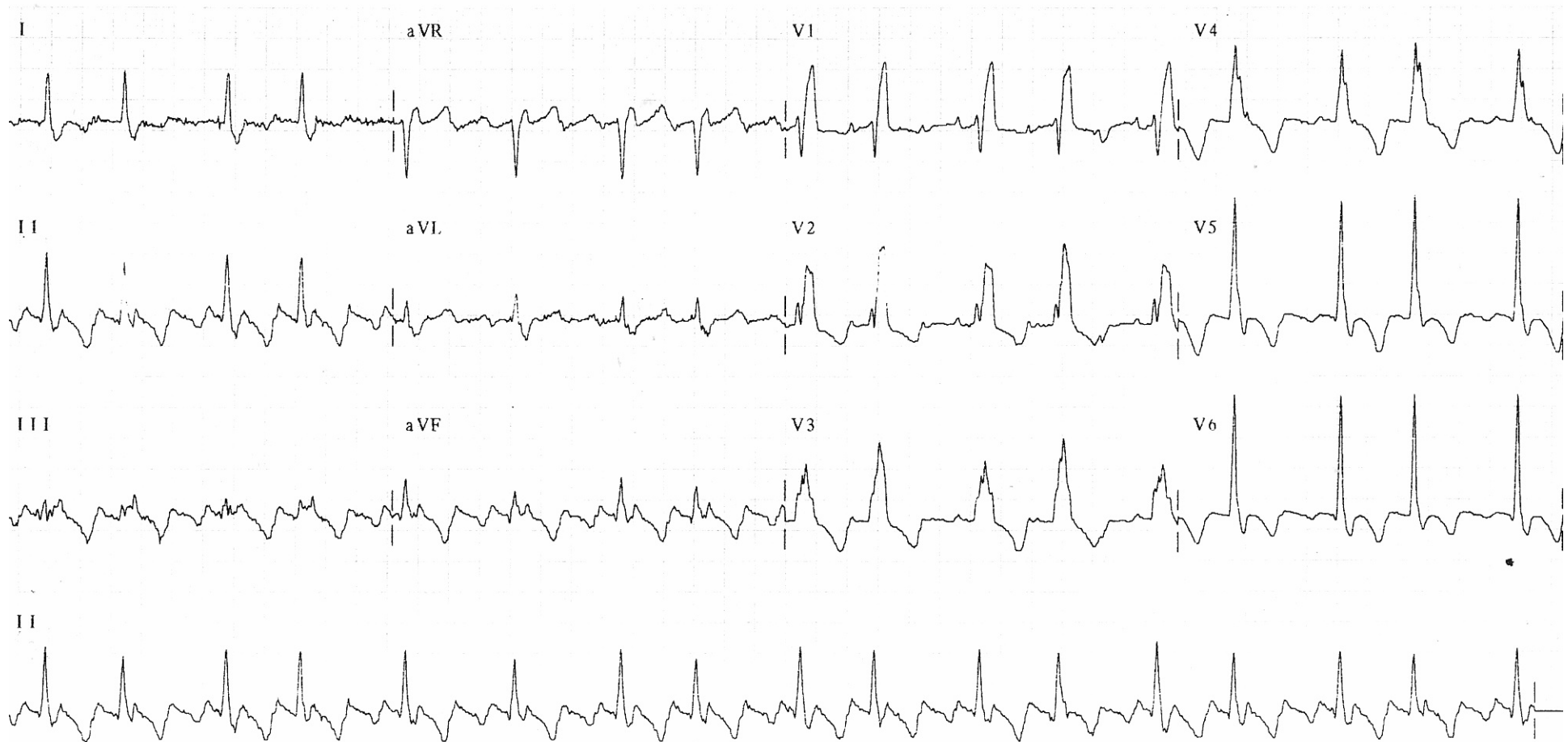
T 20

- ABNORMAL ECG -

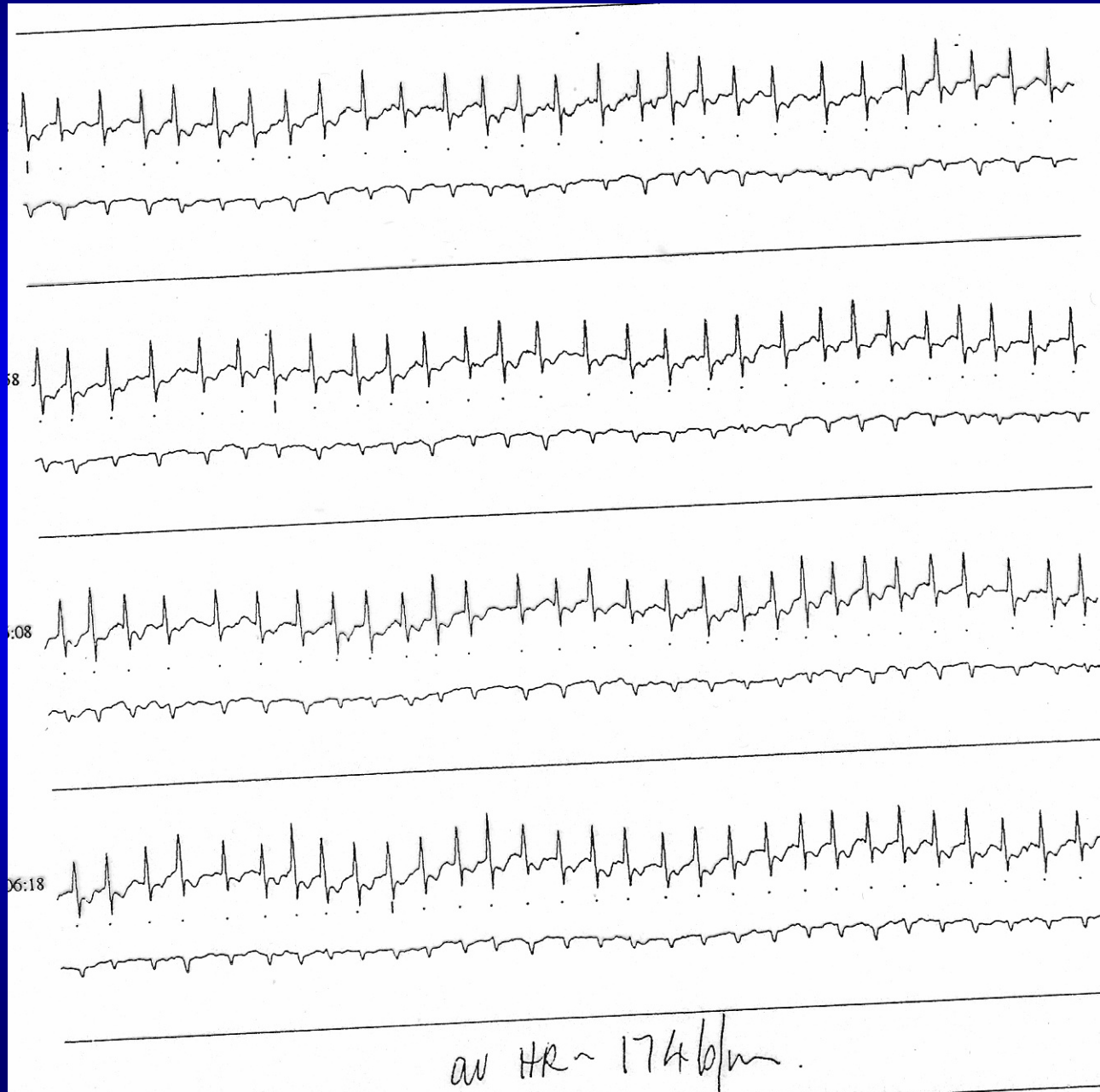
Unconfirmed. MD must review.



Atrial Flutter – Variable Block



Atrial Fibrillation



ECGs – Tachycardia Broad Complex

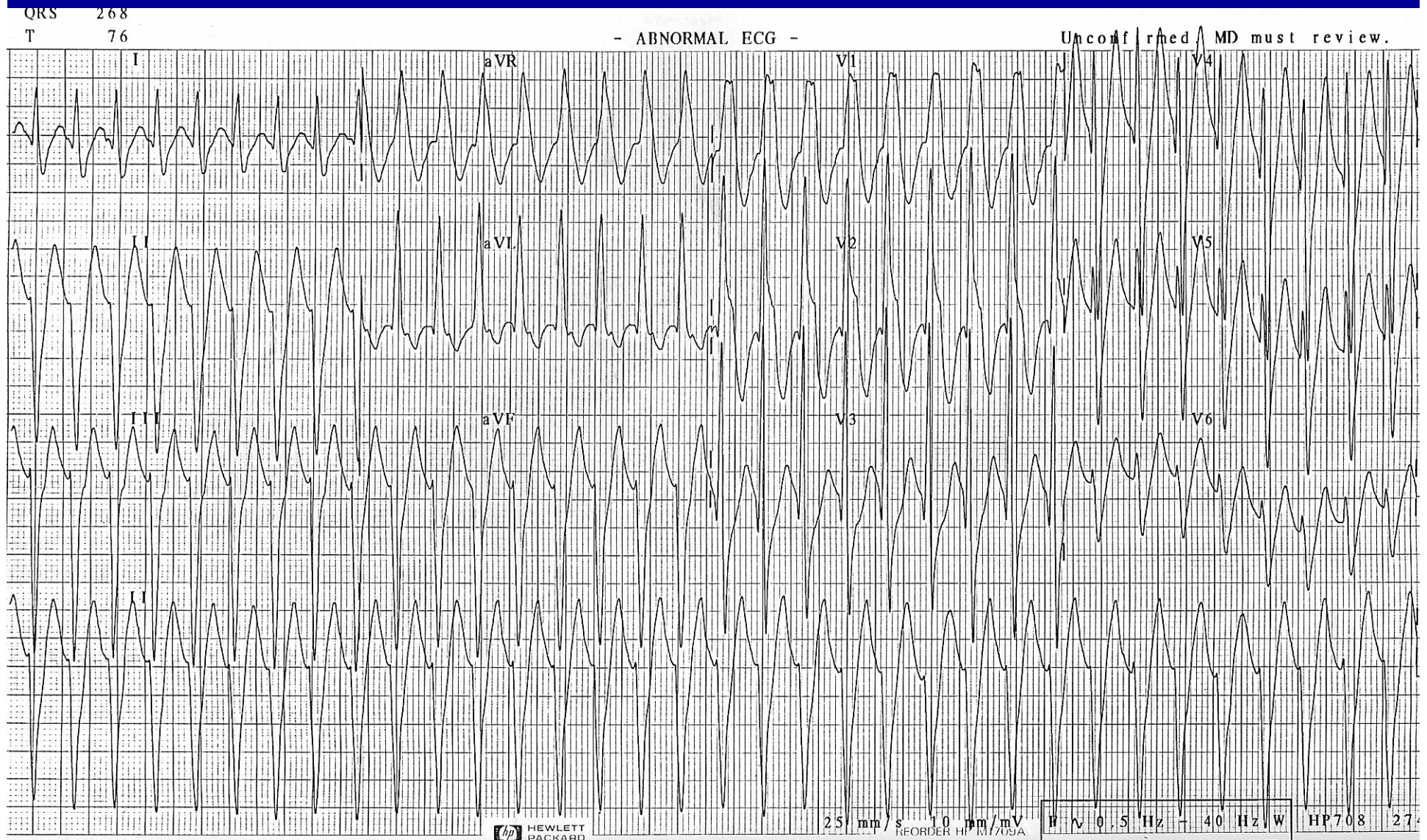
Ventricular Tachycardia

SVT with aberrancy

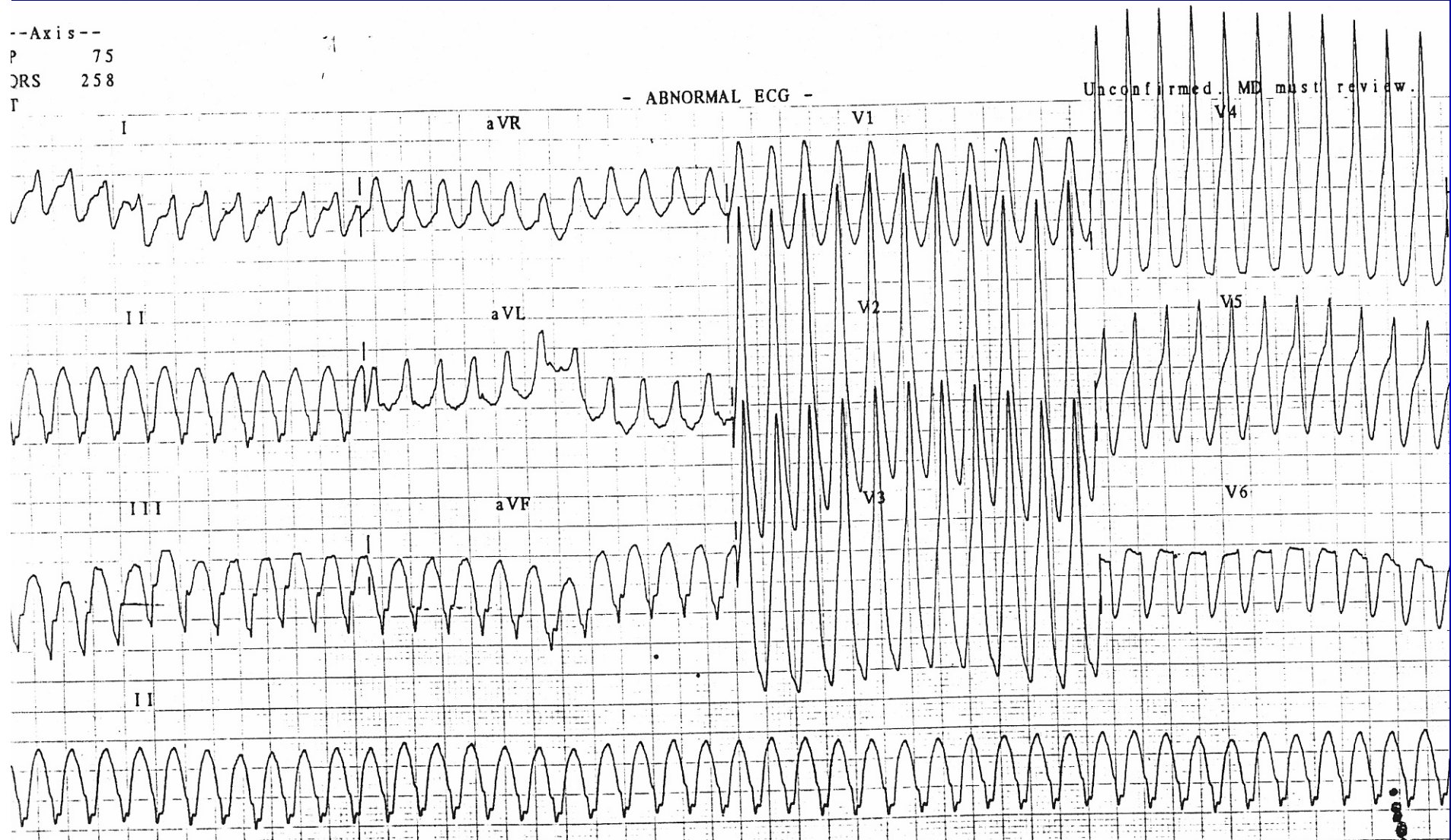
Conduction over an accessory pathway

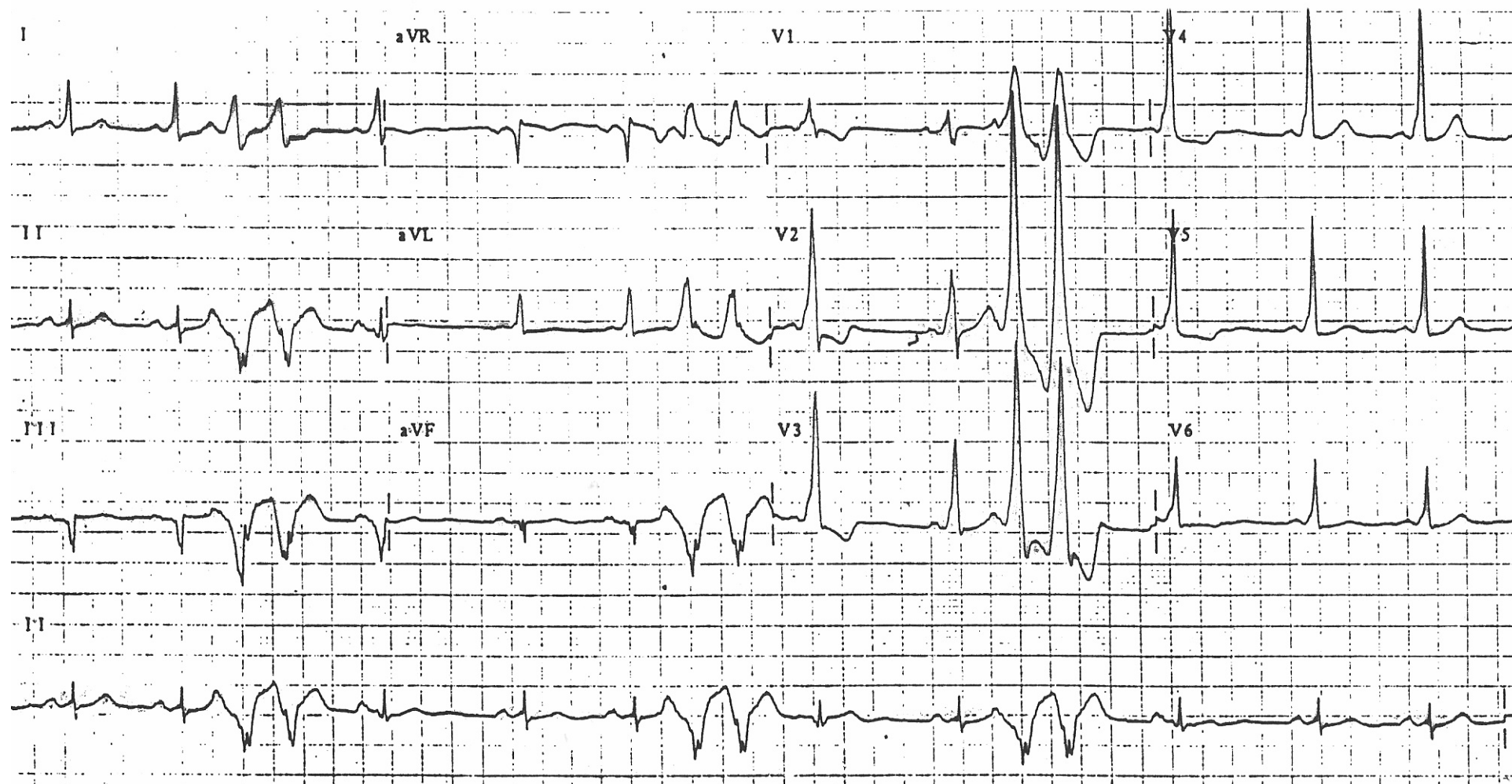
(suspect this when irregular broad complex tachycardia)

Ventricular Tachycardia



Broad complex tachycardia

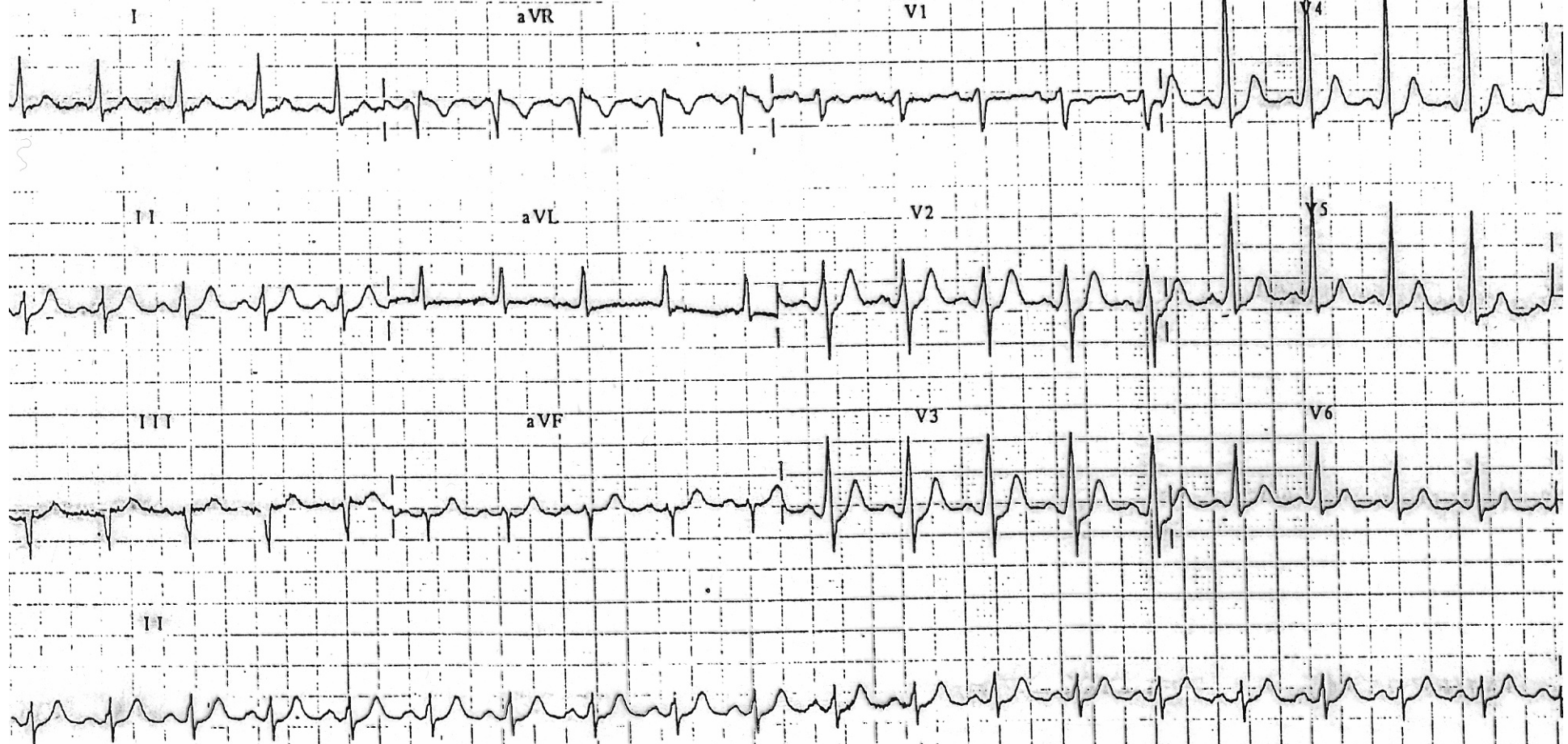




P 41
QRS -19
T 67

- OTHERWISE NORMAL ECG -

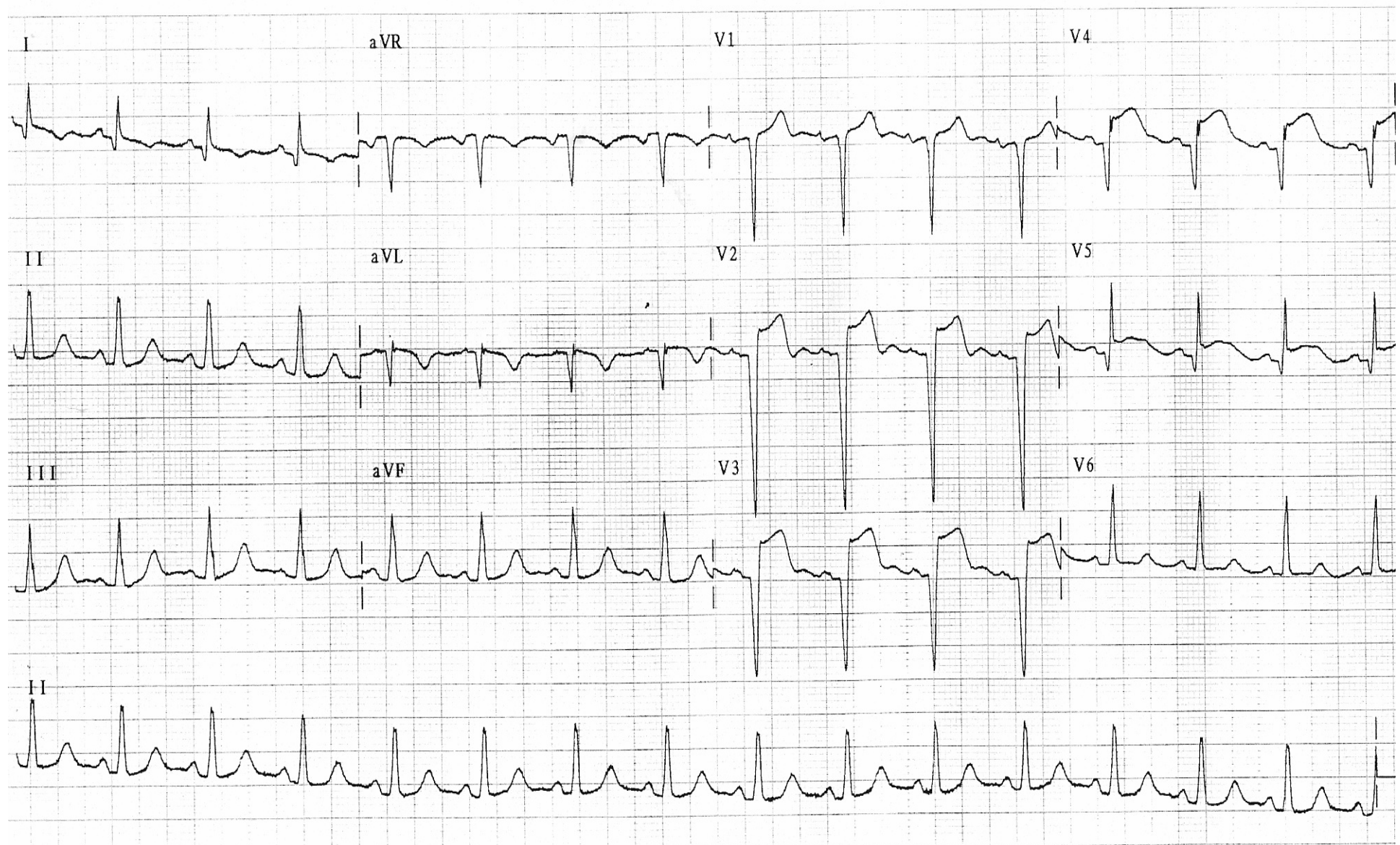
Unconfirmed MD must review.



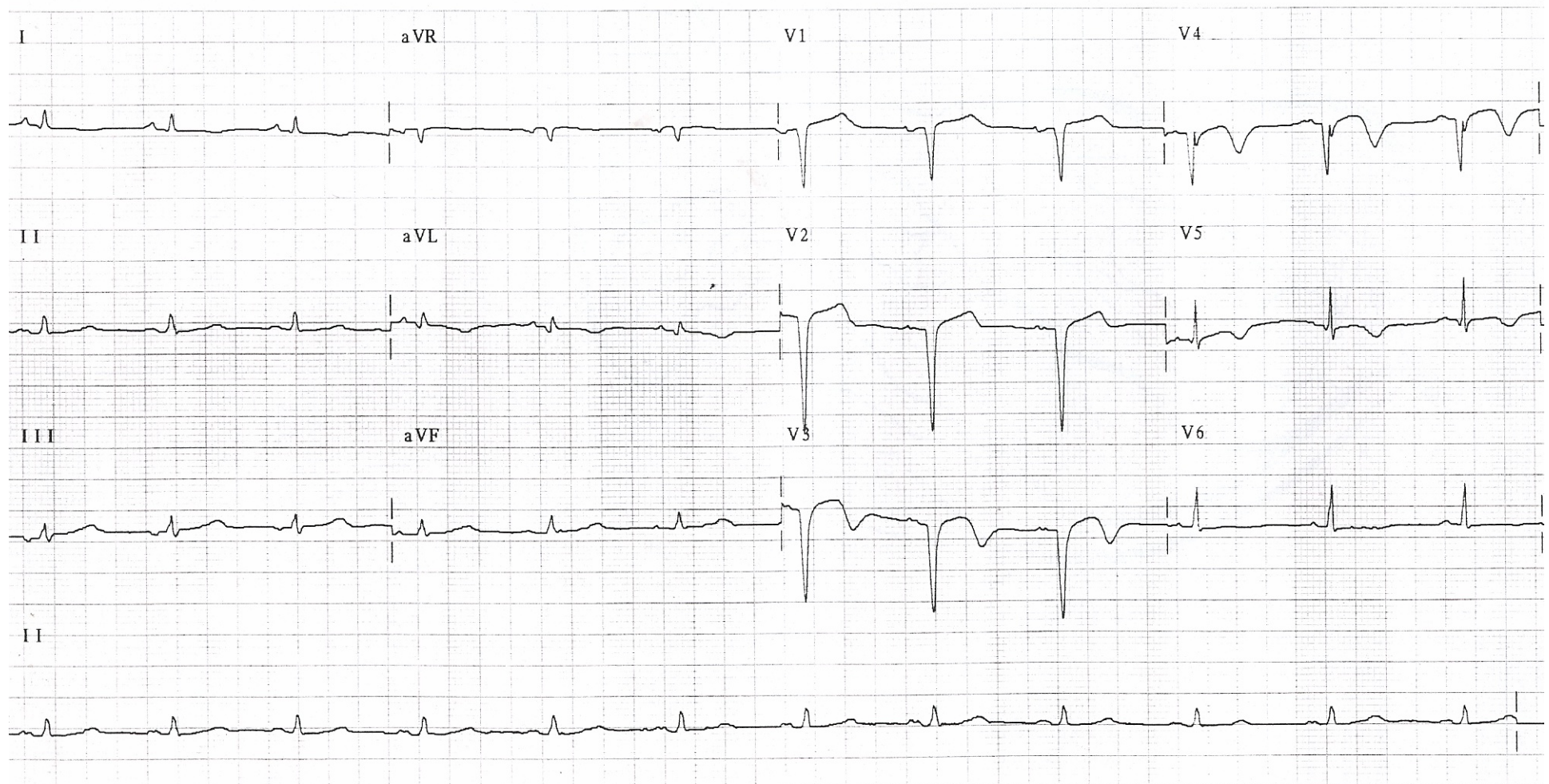
Ischaemia

- STEMI
- NSTEMI
- Ischaemia

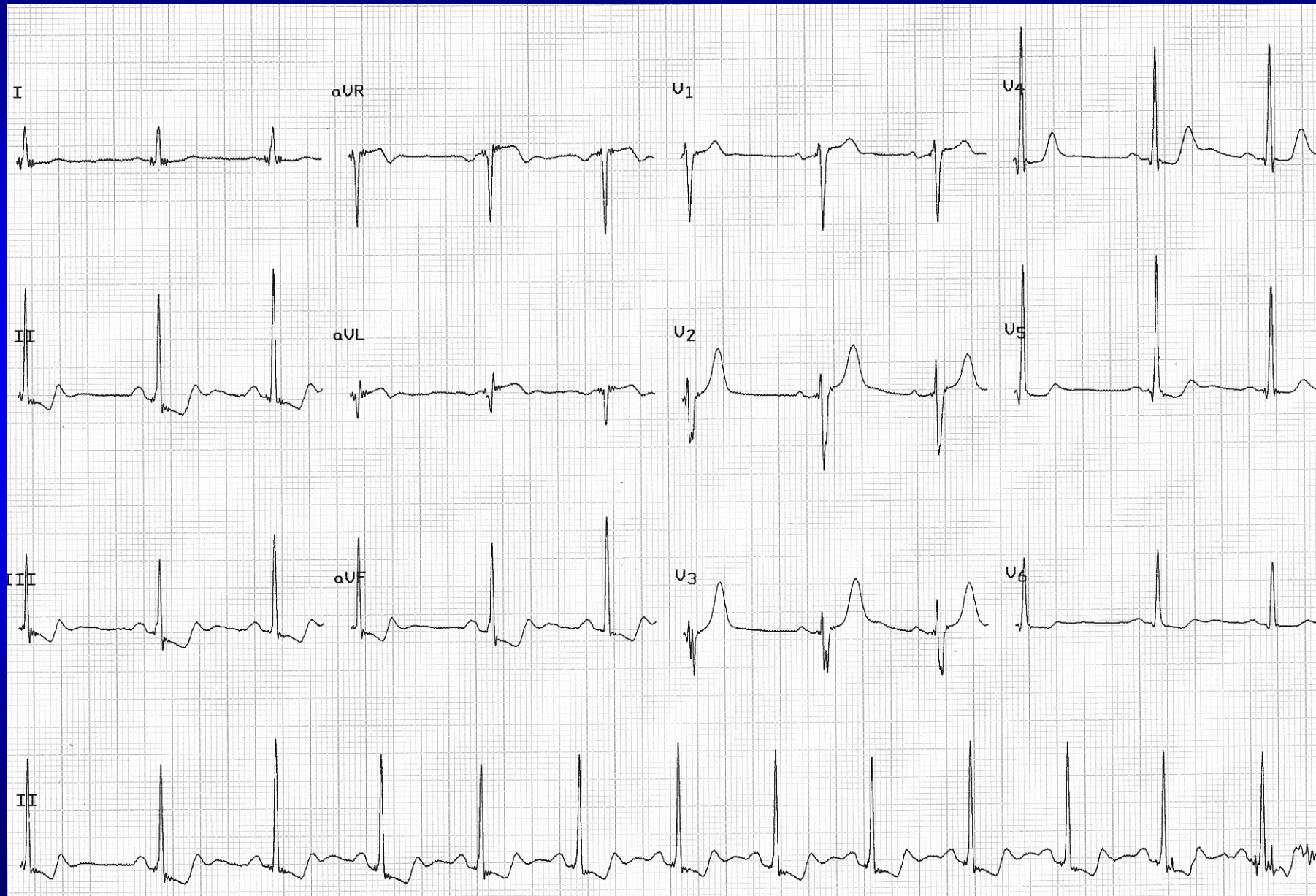
Ant STEMI



Ant STEMI



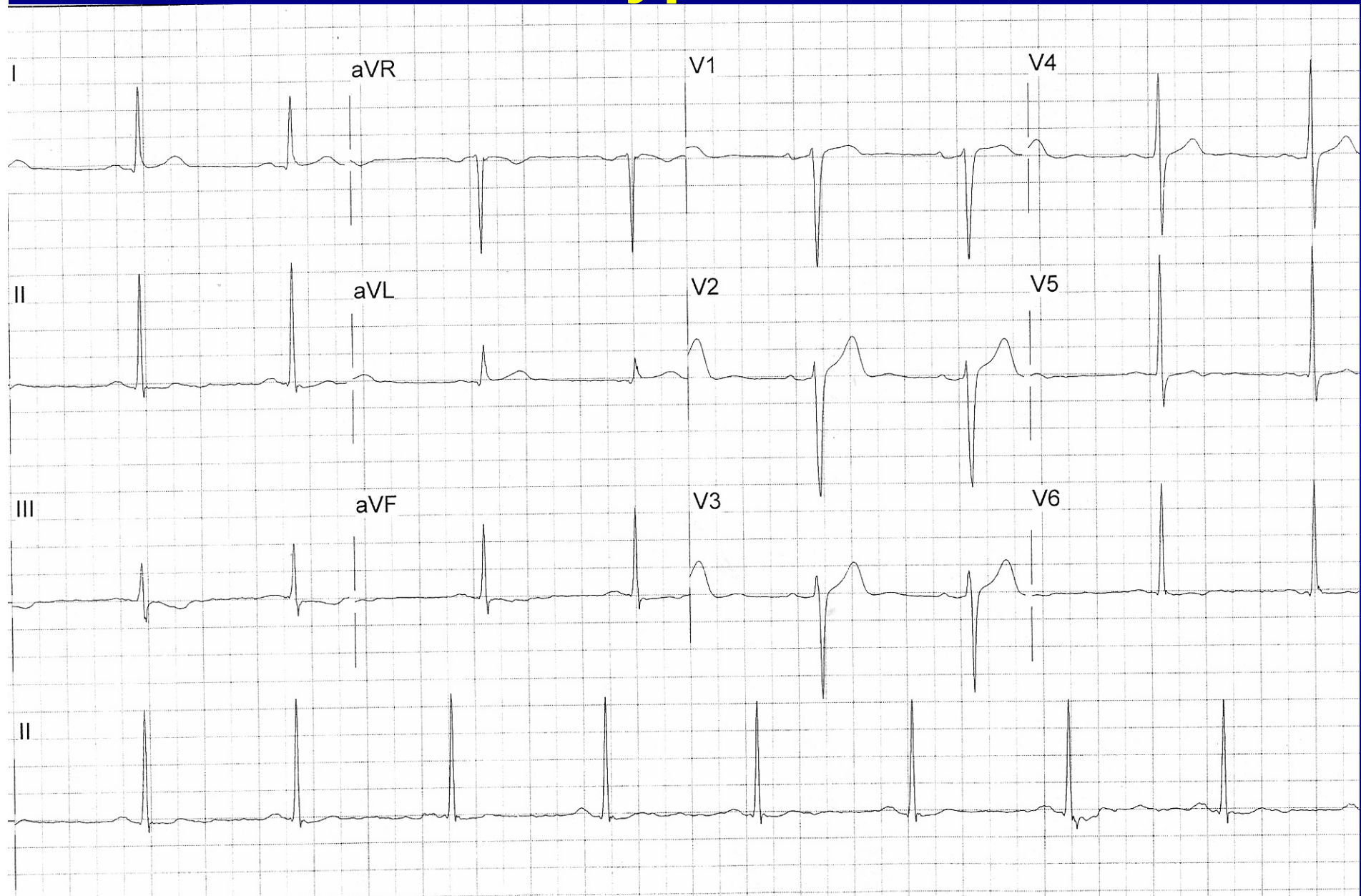
Ischaemia



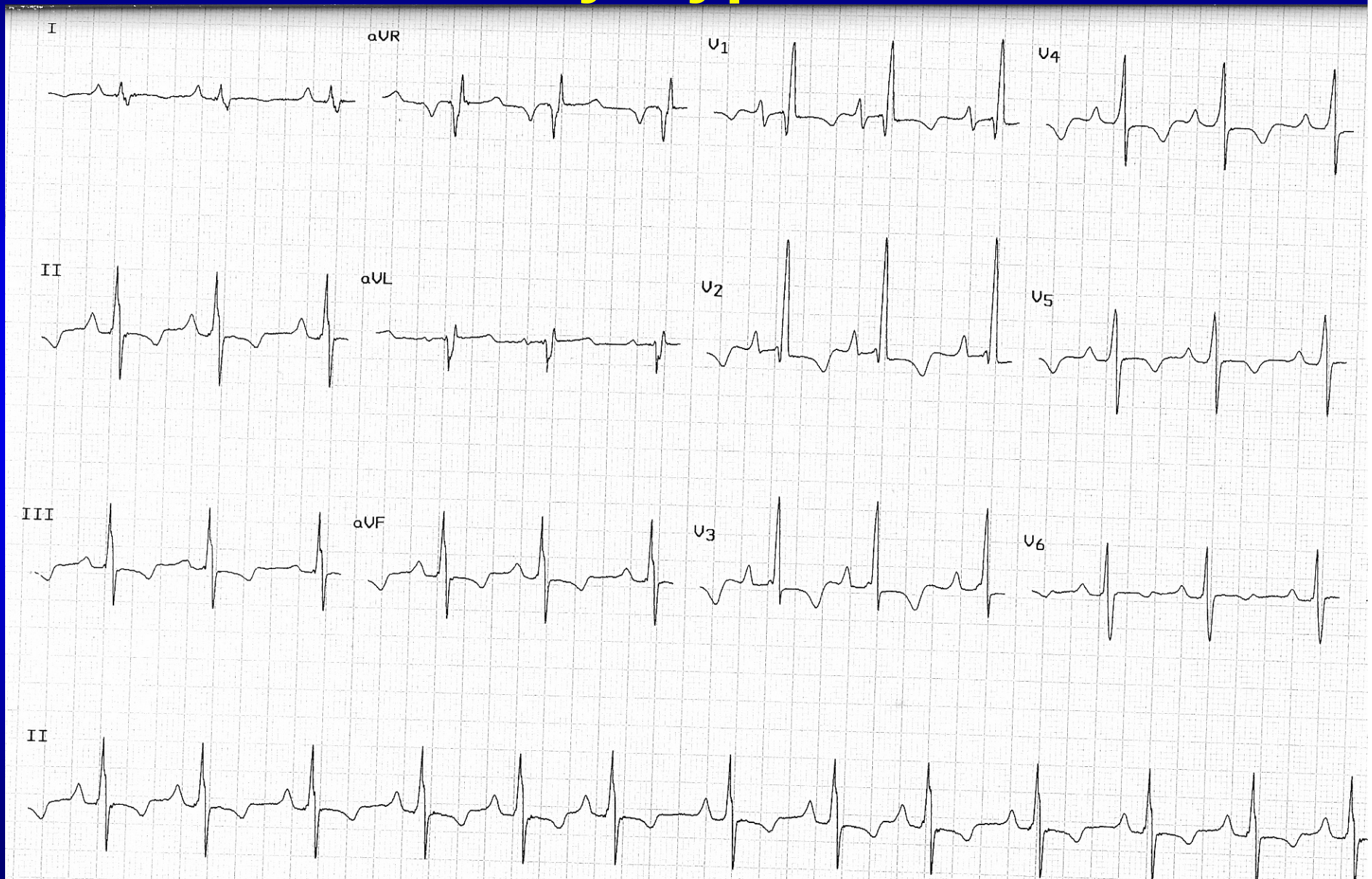
Other ECG abnormalities

- Hypertrophy
- Pericarditis
- Electrolyte abnormalities
- Drug toxicity
- Thyroid abnormalities

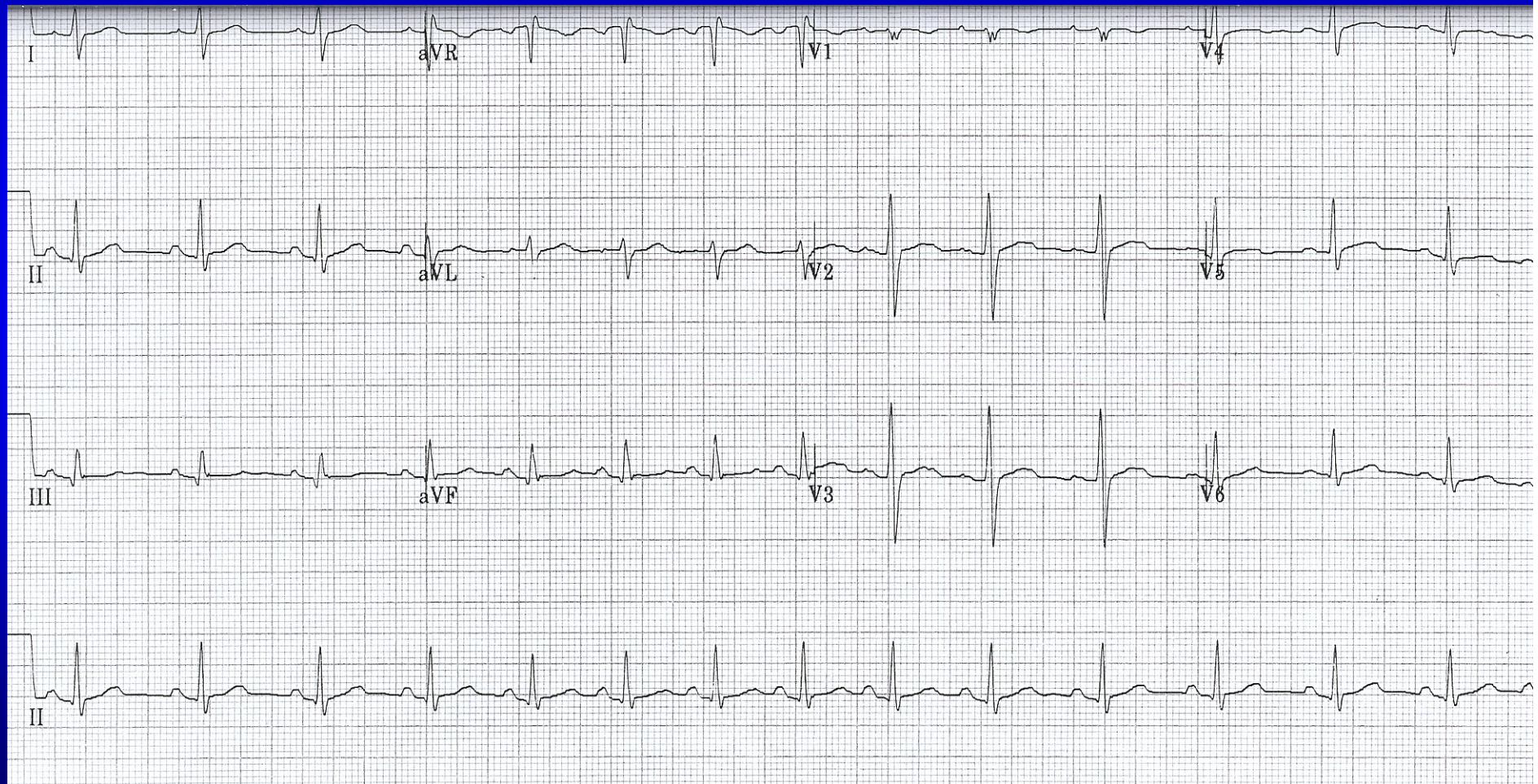
LVH - Hypertension



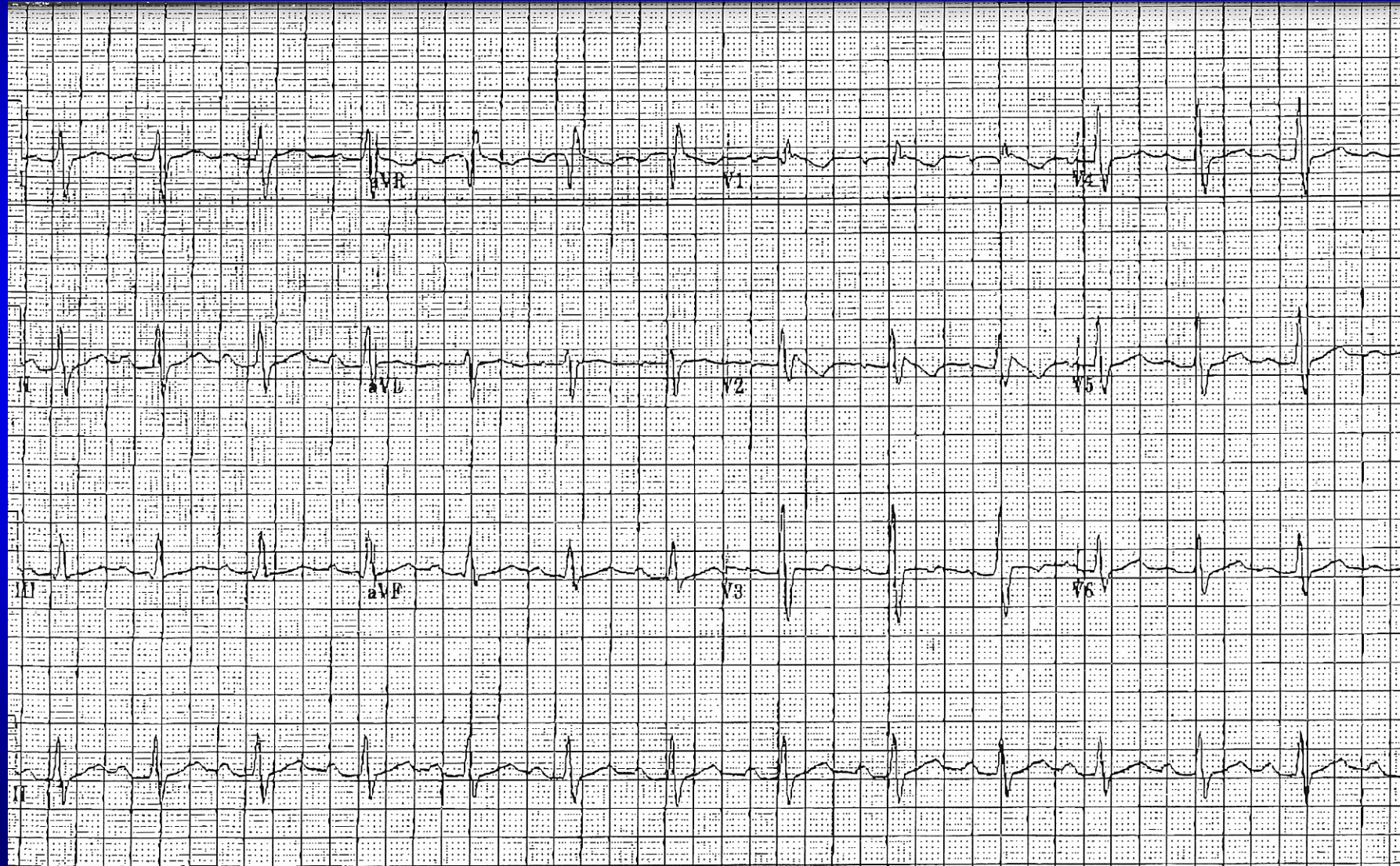
Pulmonary Hypertension



Flecainide 100mg/d



Flecainide 300mg/d



Flecainide 300mg/d

