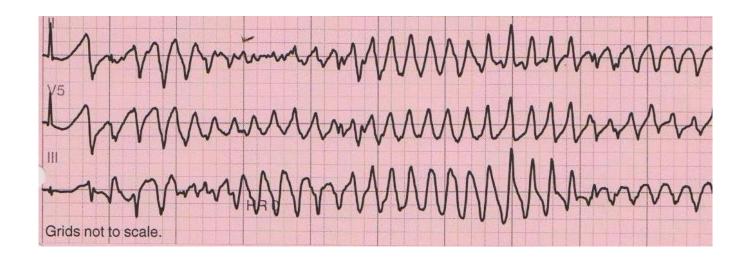
ECG Diagnoses Not To Be Missed



Dr Mrinal Andrew Saha MA(Cantab) MBBS FRCP PhD

Consultant Interventional Cardiologist

Dr Mrinal Saha

Appointed 2010

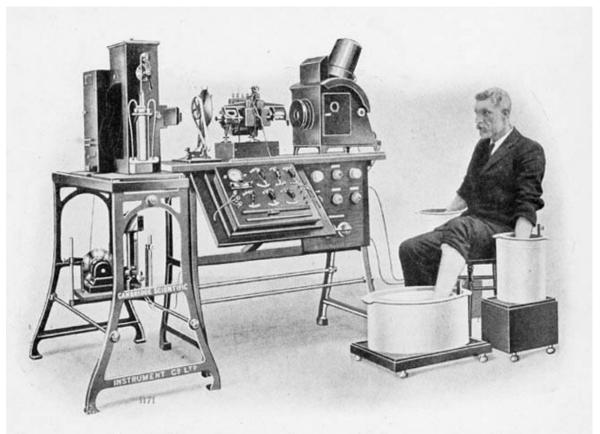
Angioplasty, stents Heart valve disease Palpitations Heart failure

ECG analysis: a systematic approach

Is it regular or irregular
What is the rate
Can you see P waves
Are the P waves followed by a QRS
Is the QRS narrow or wide
What are the ST segments doing

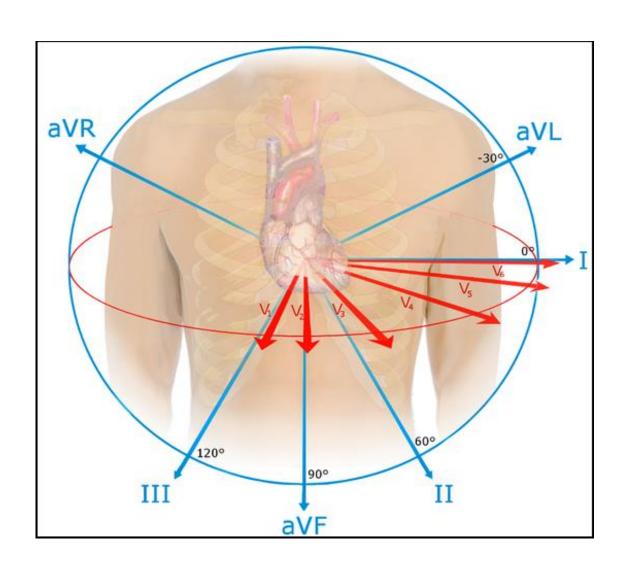
PATTERN RECOGNITION

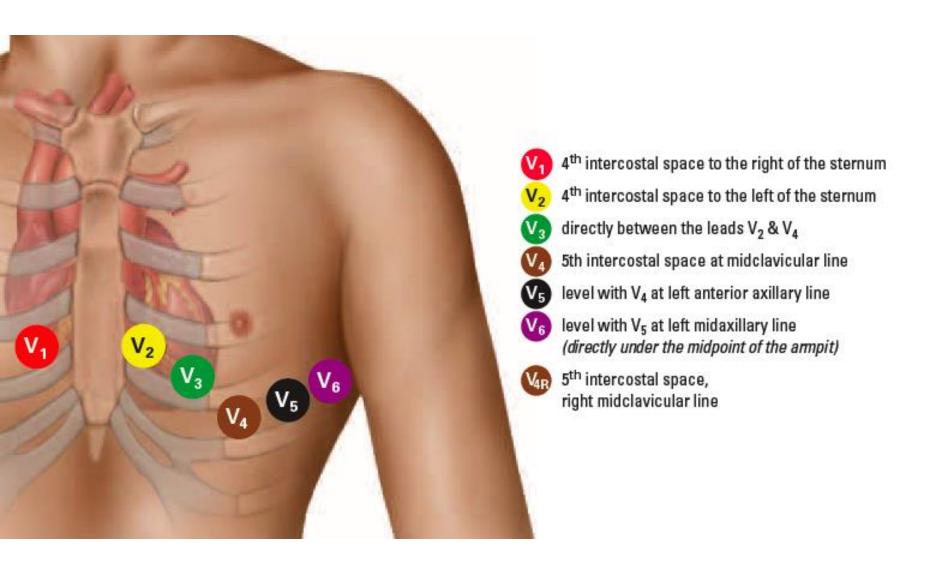
Obtaining an accurate ECG

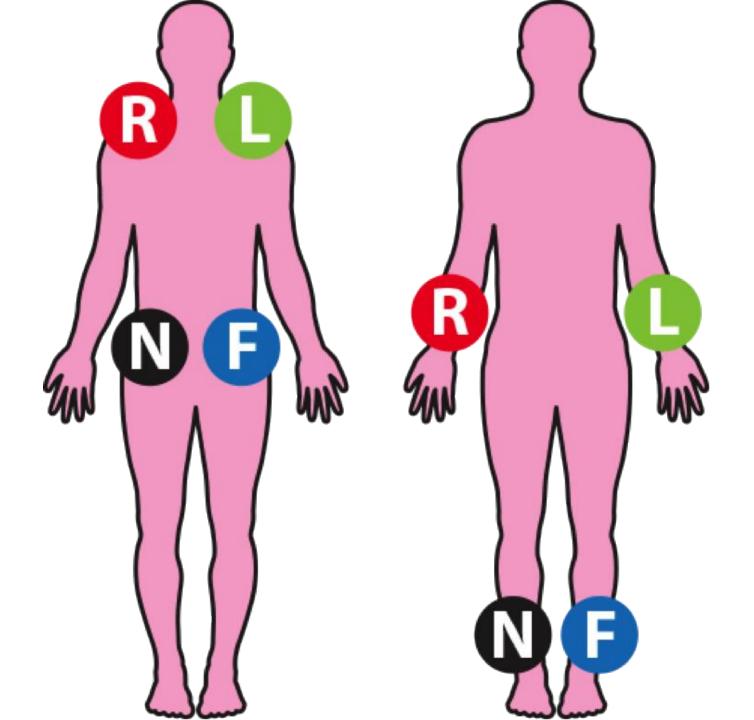


PHOTOGRAPH OF A COMPLETE ELECTROCARDIOGRAPH, SHOWING THE MANNER IN WHICH THE ELECTRODES ARE ATTACHED TO THE PATIENT, IN THIS CASE THE HANDS AND ONE FOOT BEING IMMERSED IN JARS OF SALT SOLUTION

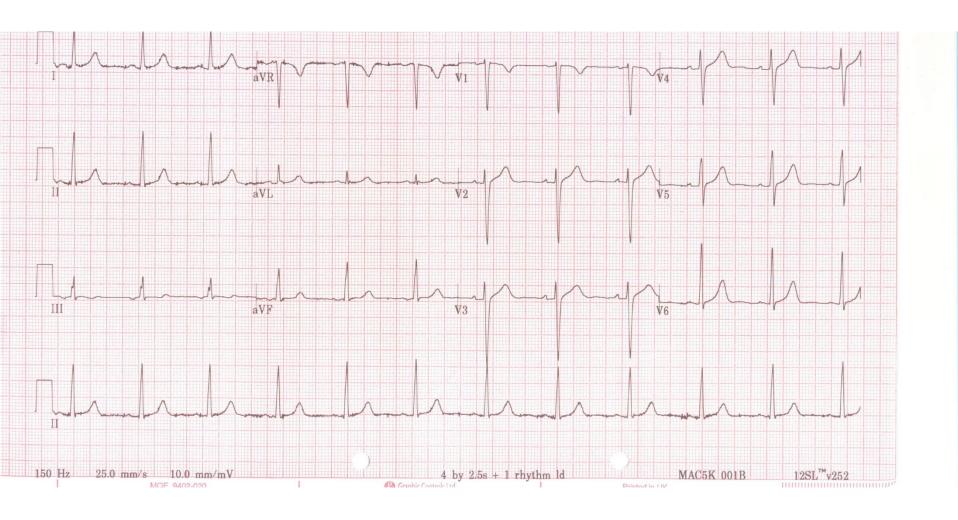
Lead Placement

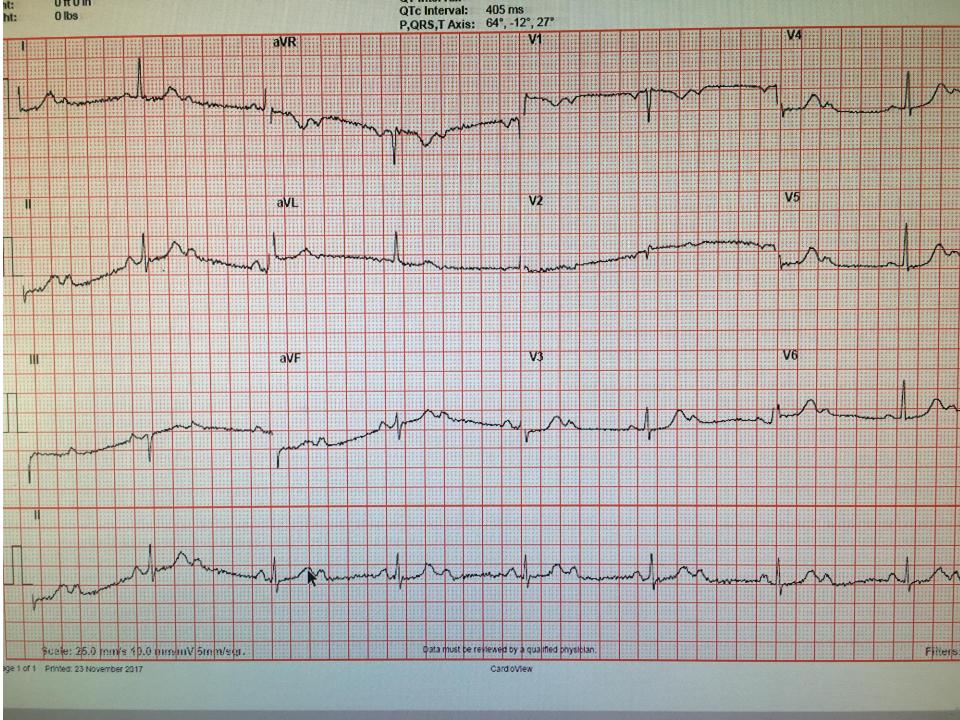


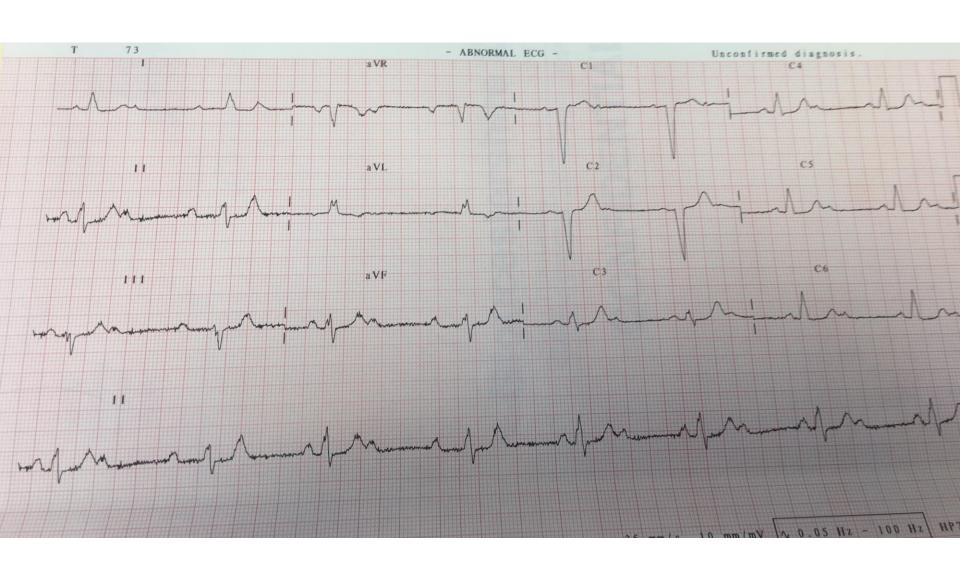


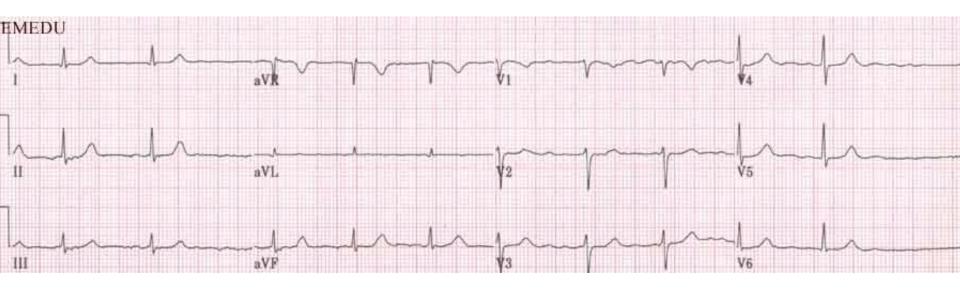


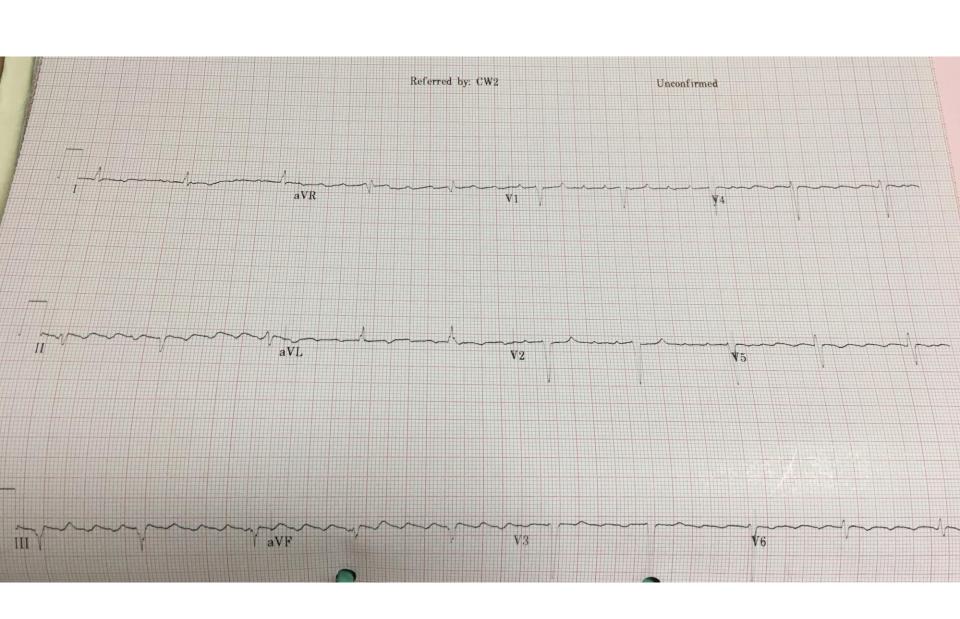
mm/mV 1 square = 0.04 sec/0.1mV

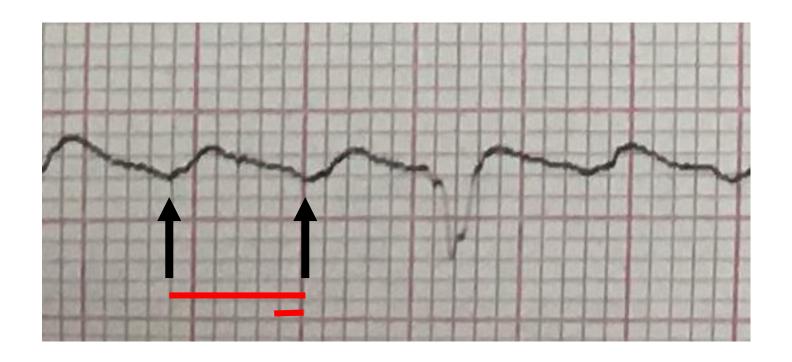












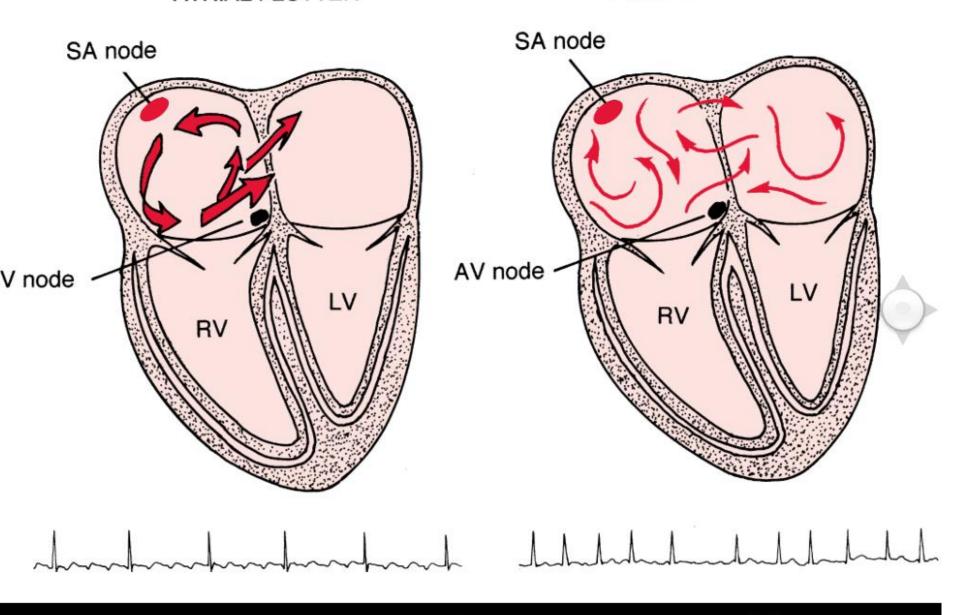
1 small square = 40ms

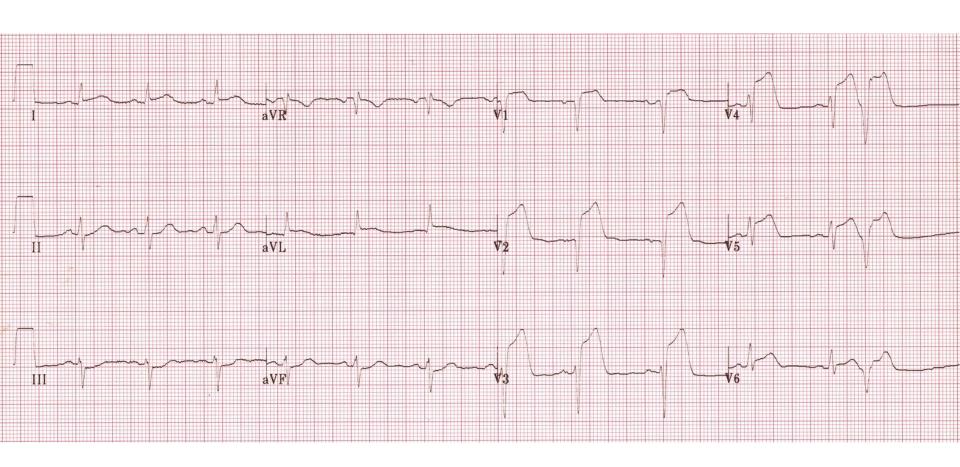
6 small square = 240ms

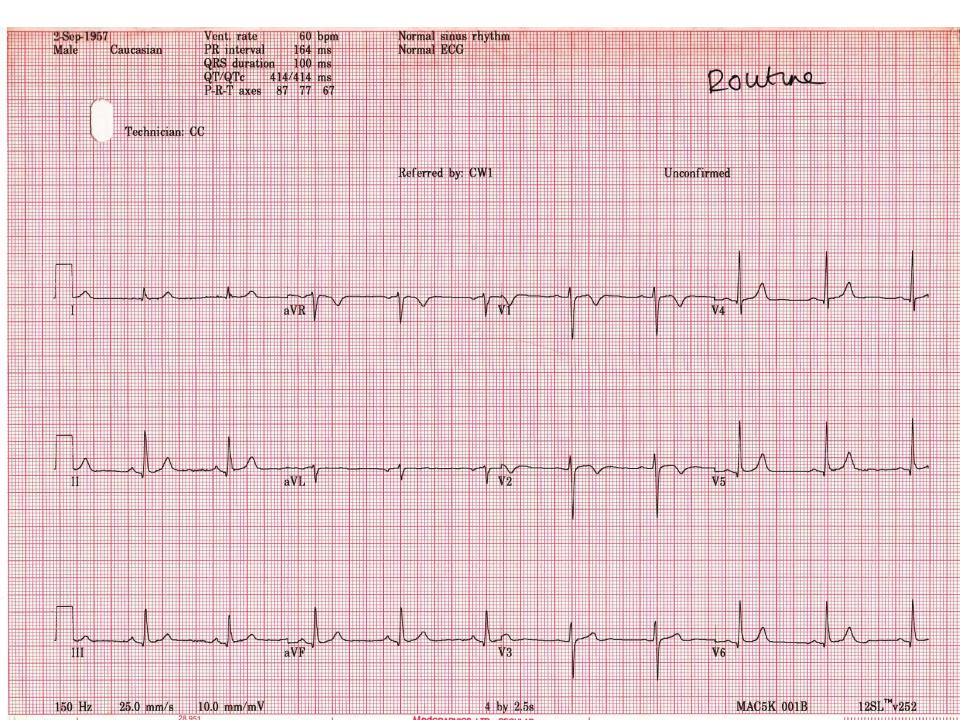
Flutter rate =
$$60,000$$
 = 250/min 240

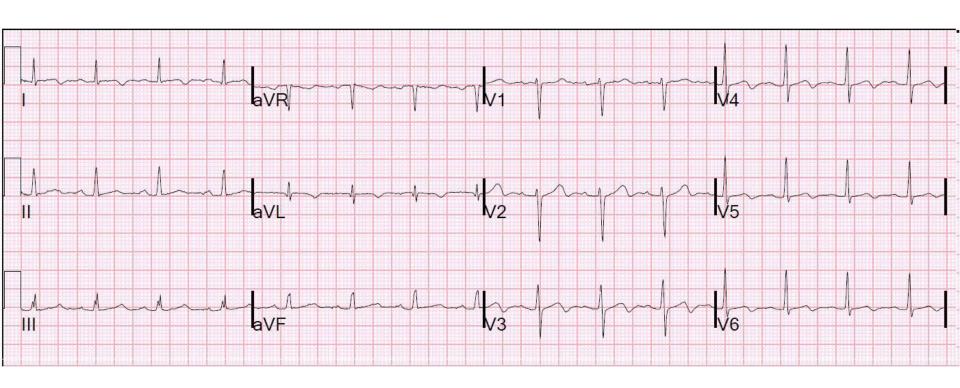


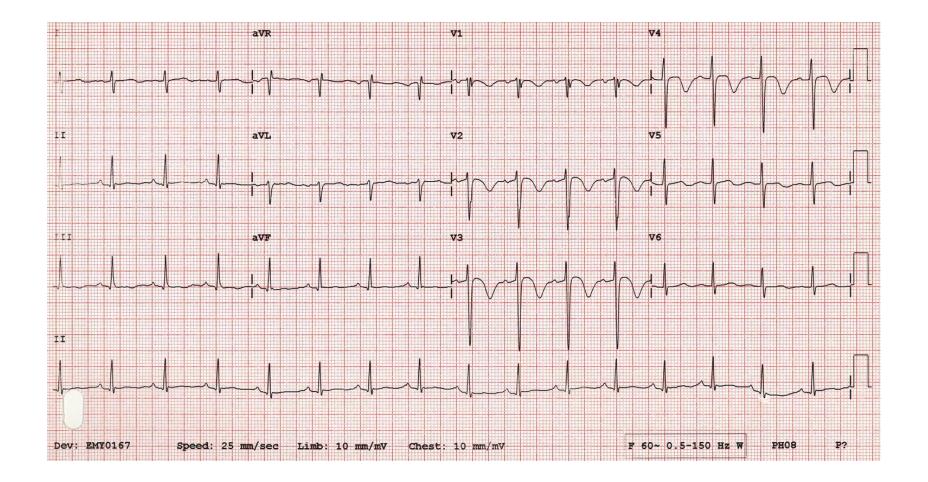
ATRIAL FLUTTER

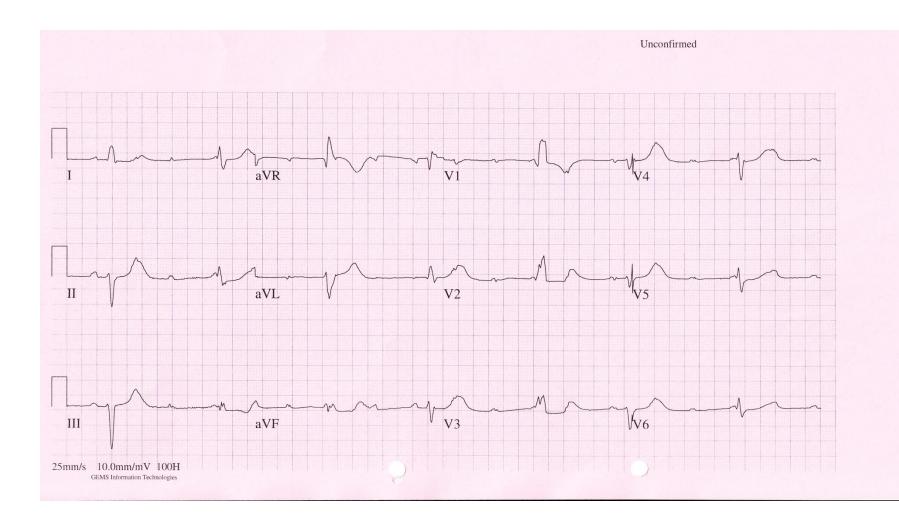


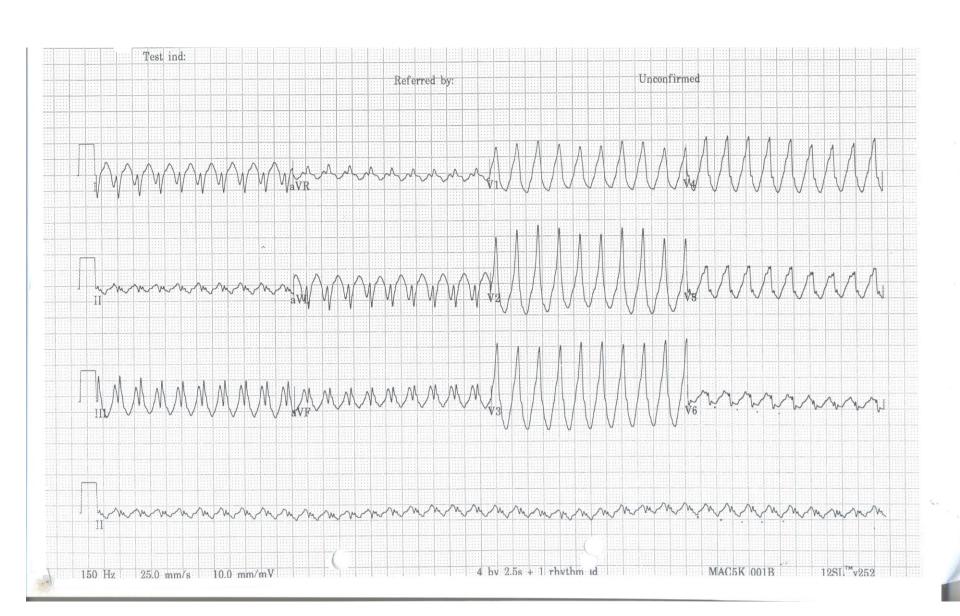


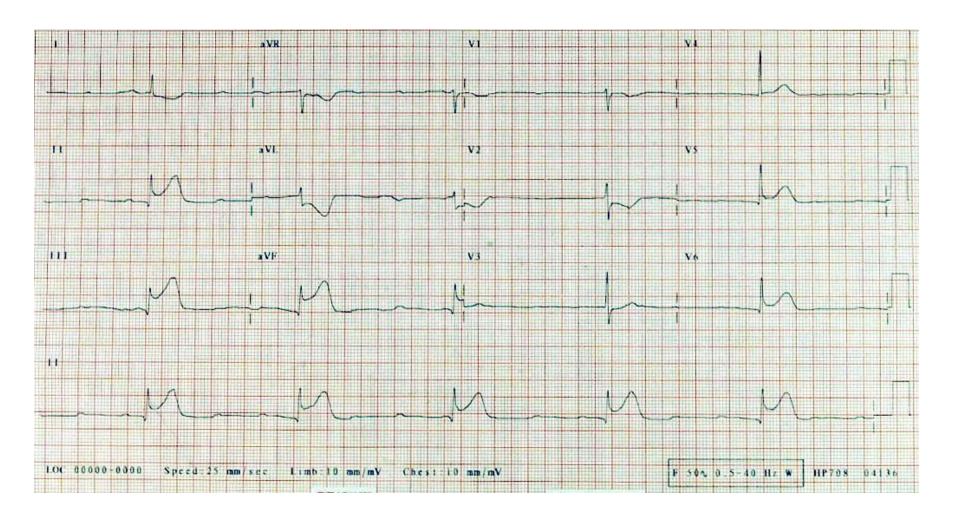




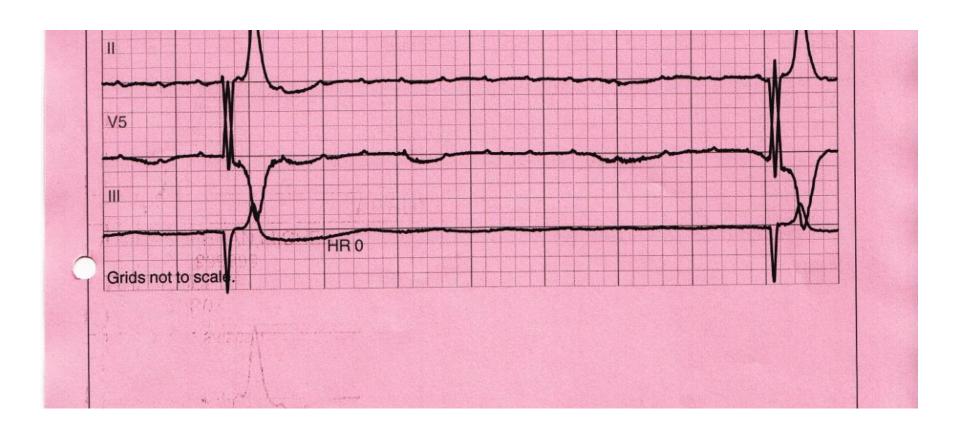


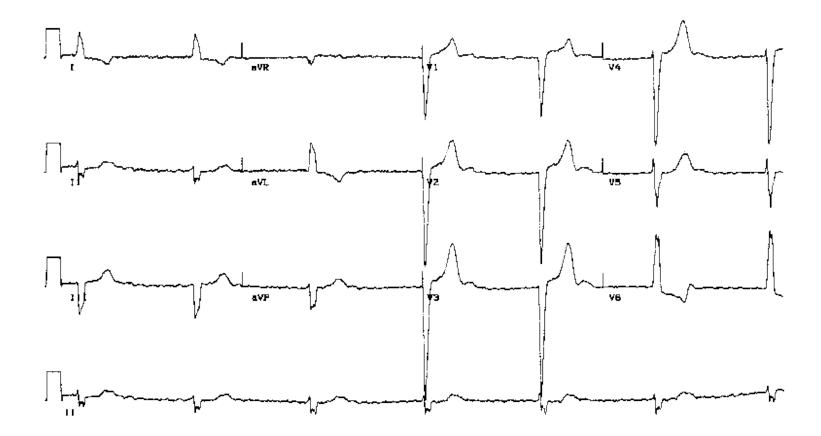


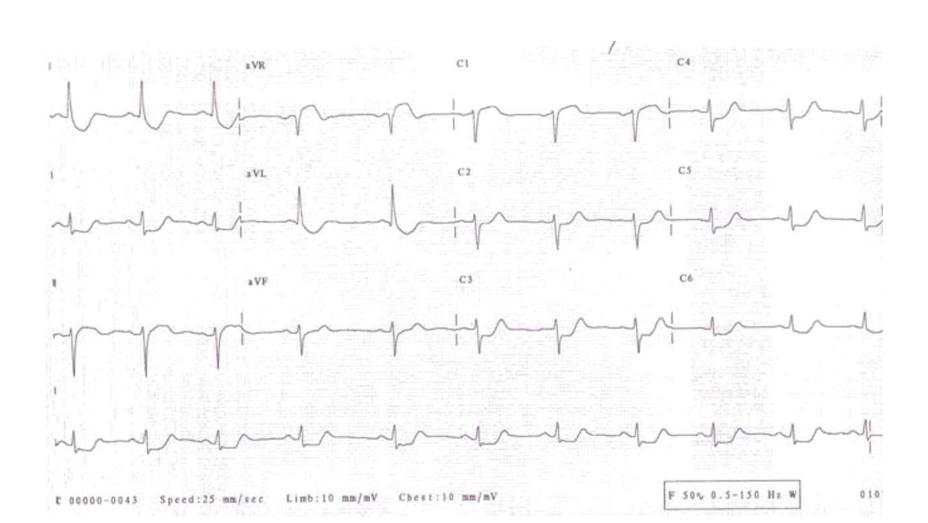


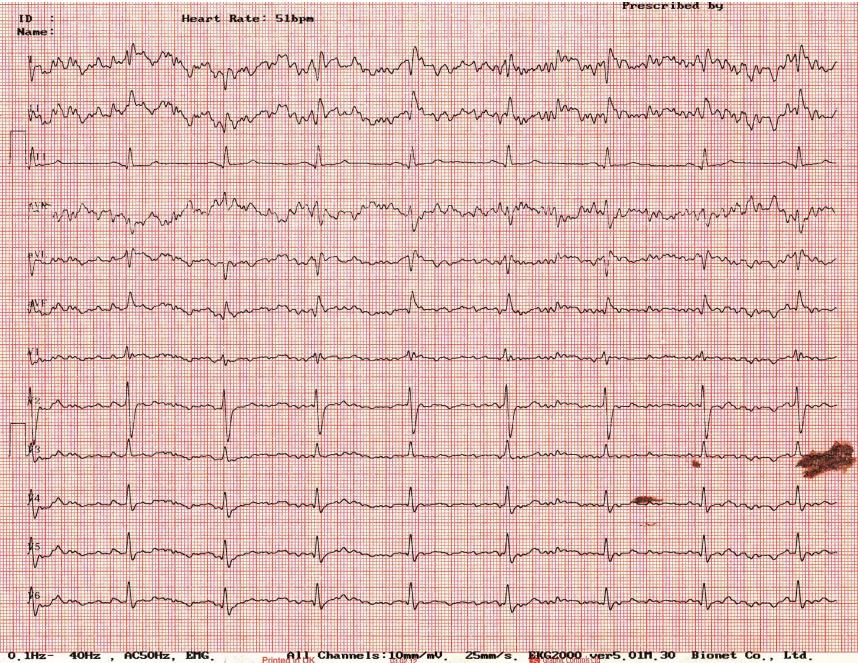


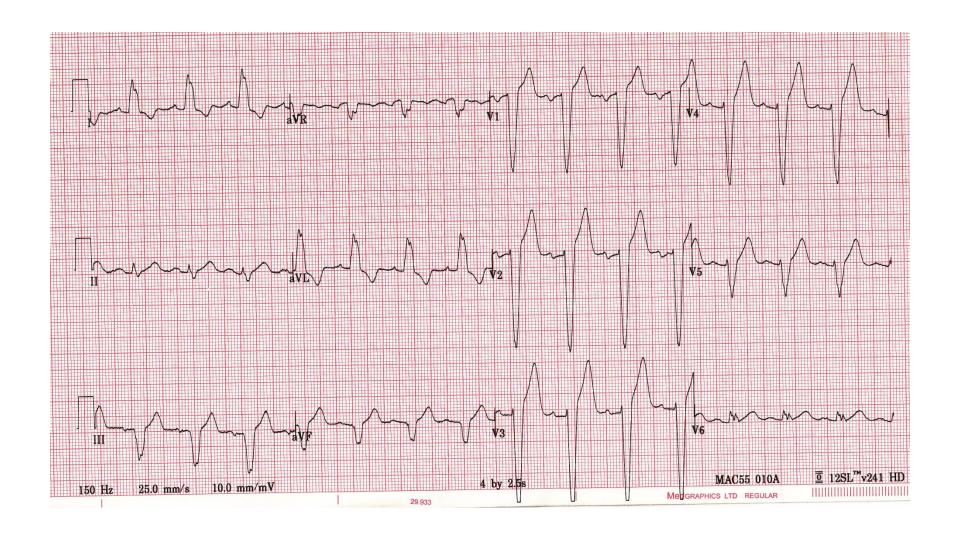


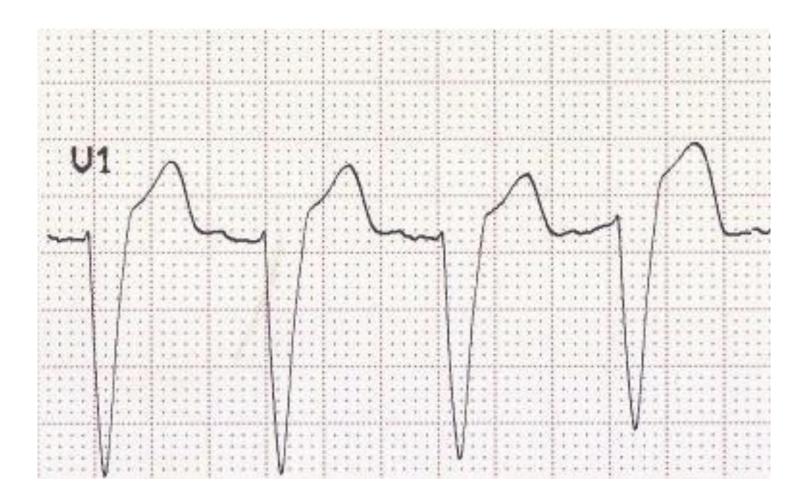


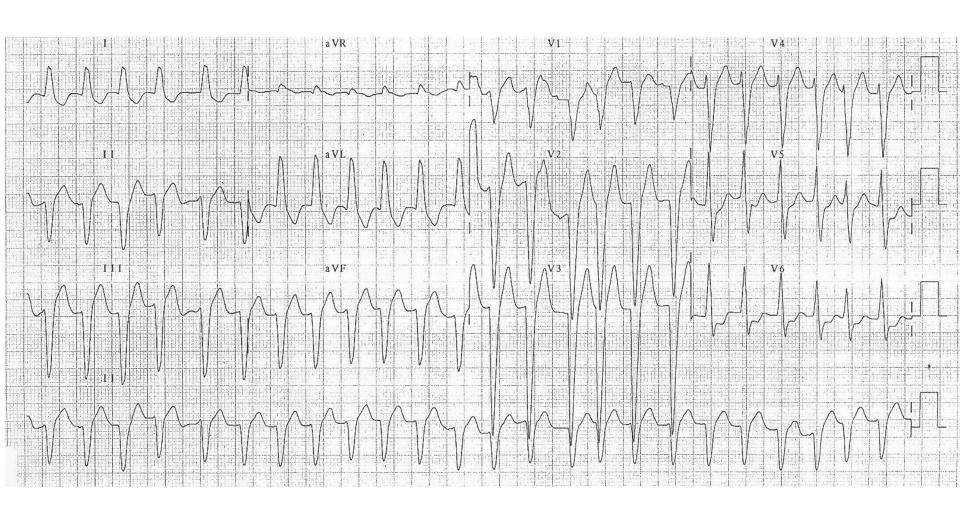


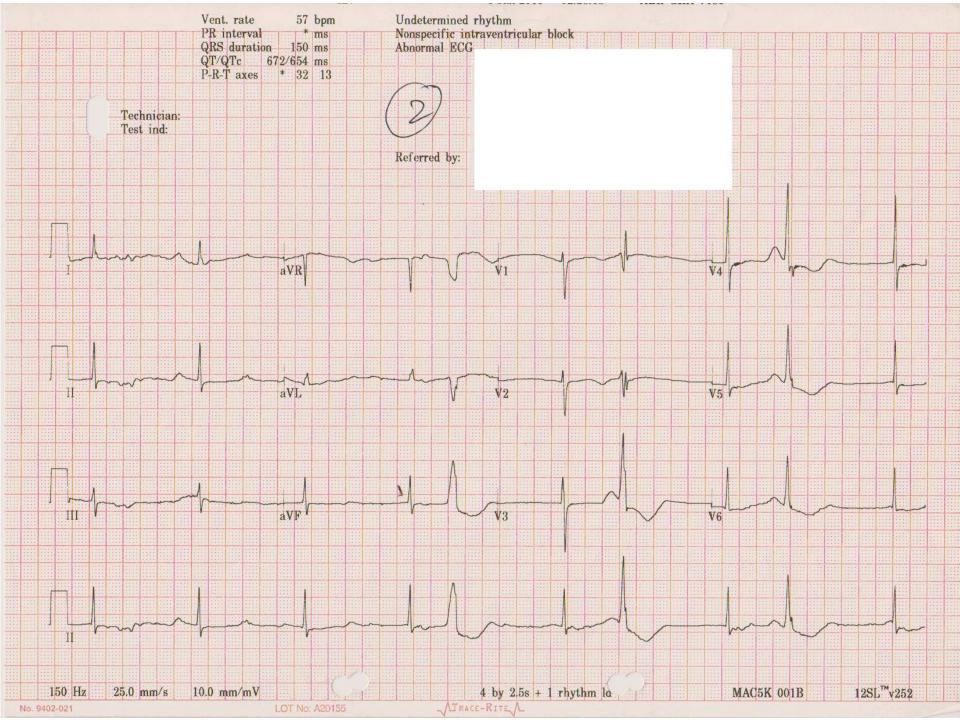


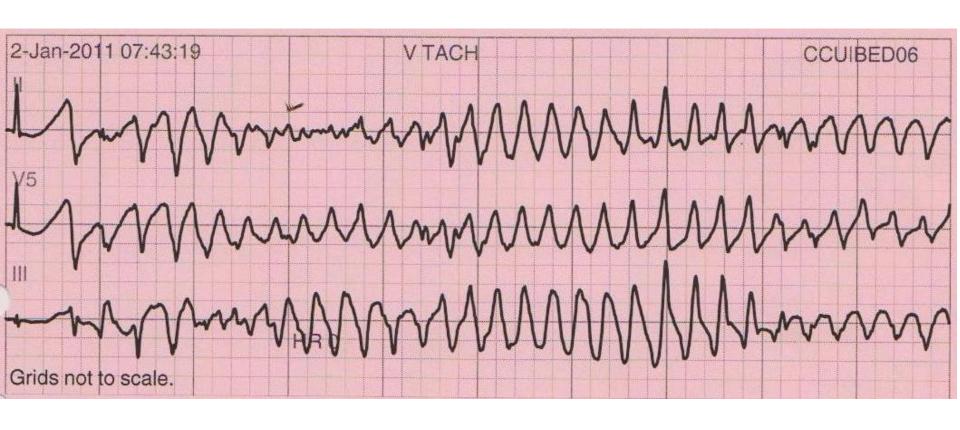






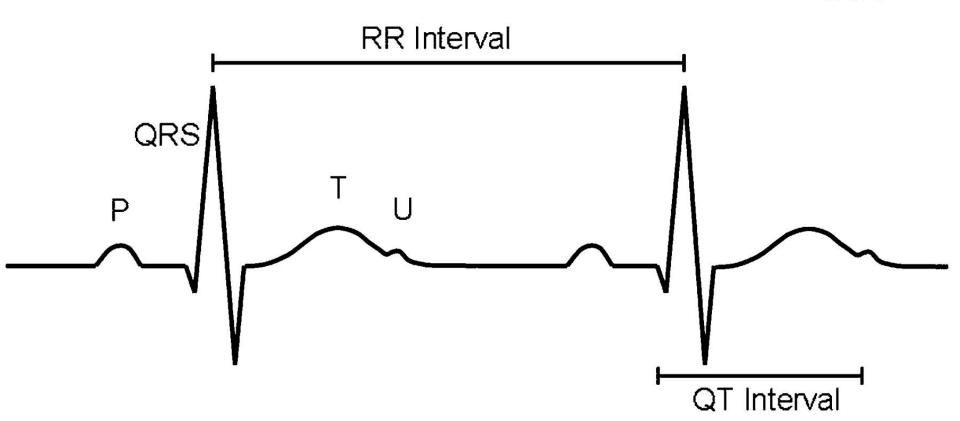


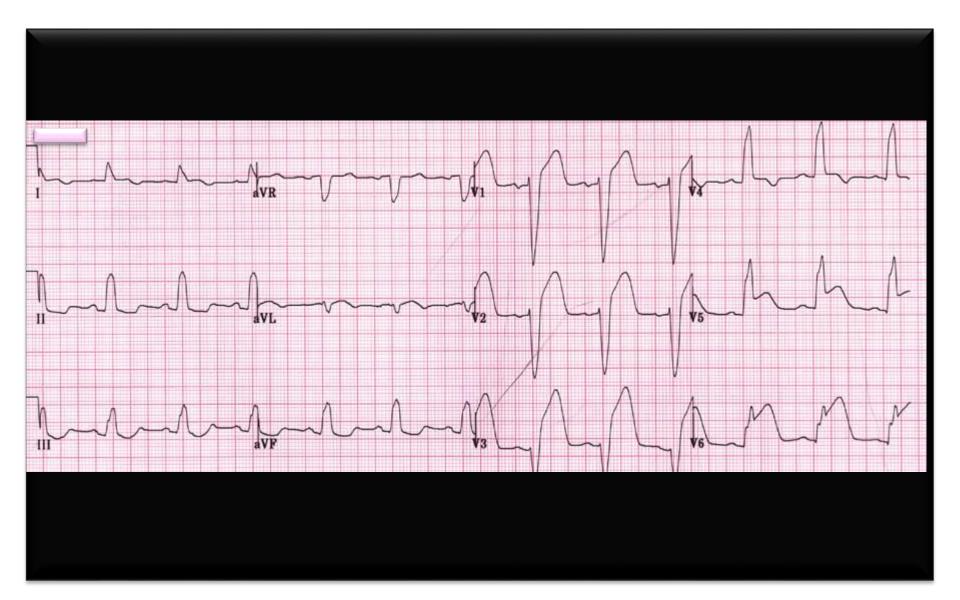




Bazett's Formula

$$QTc = \frac{QT}{\sqrt{RR}}$$





Thank you for listening

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