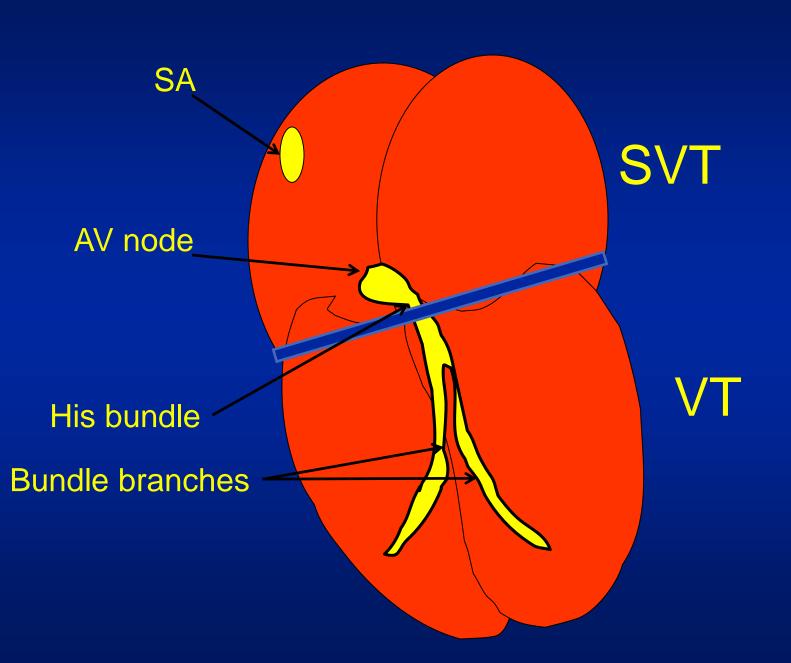
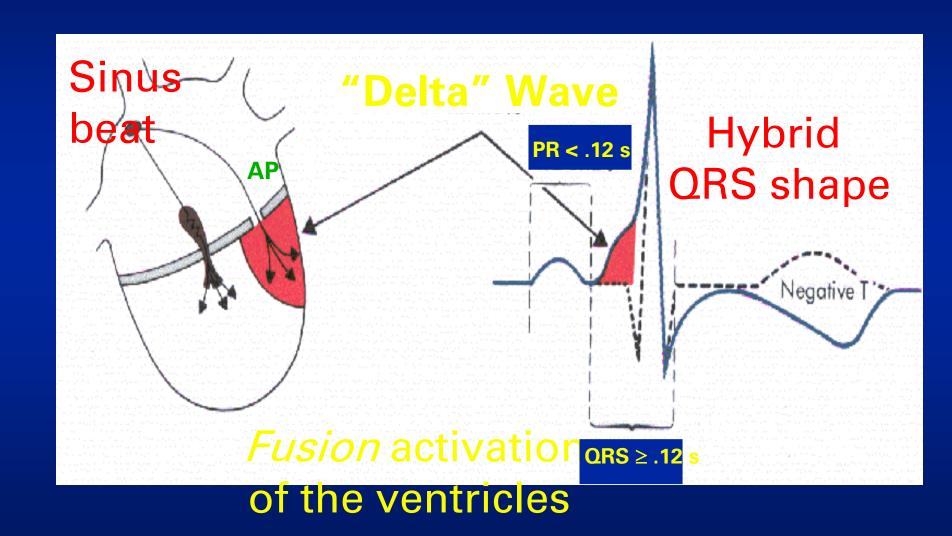


ECG med 442 NCR & WCT

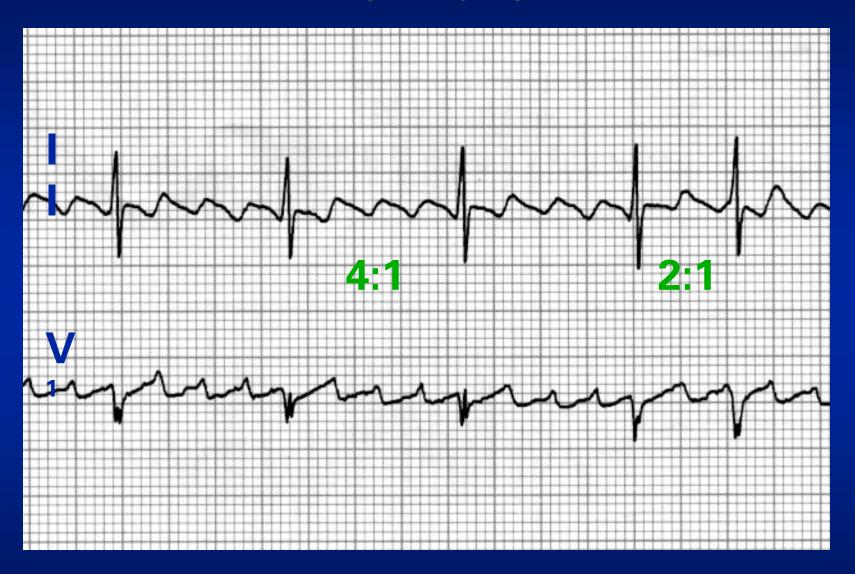
Dr. Ahmad S. Hersi,

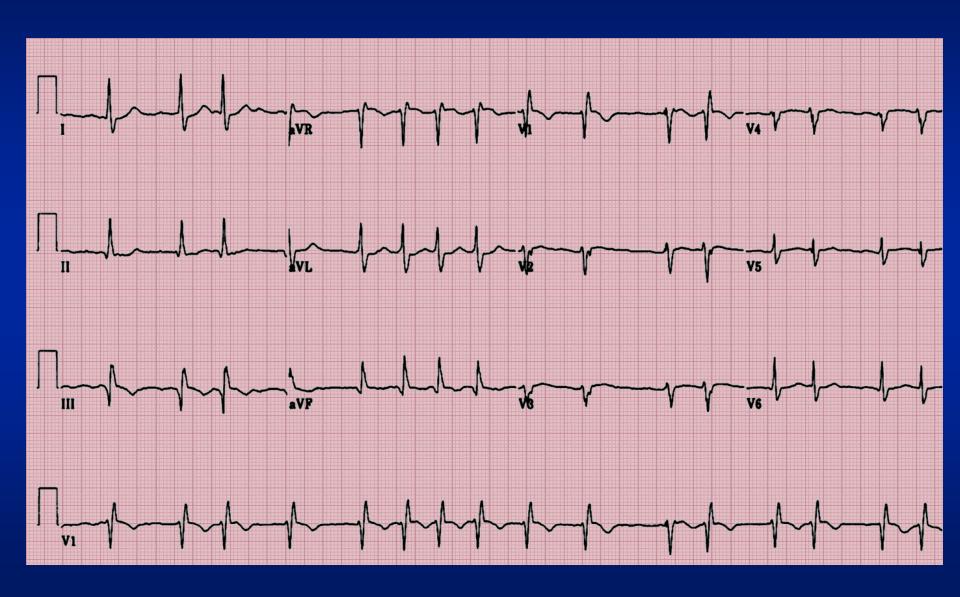


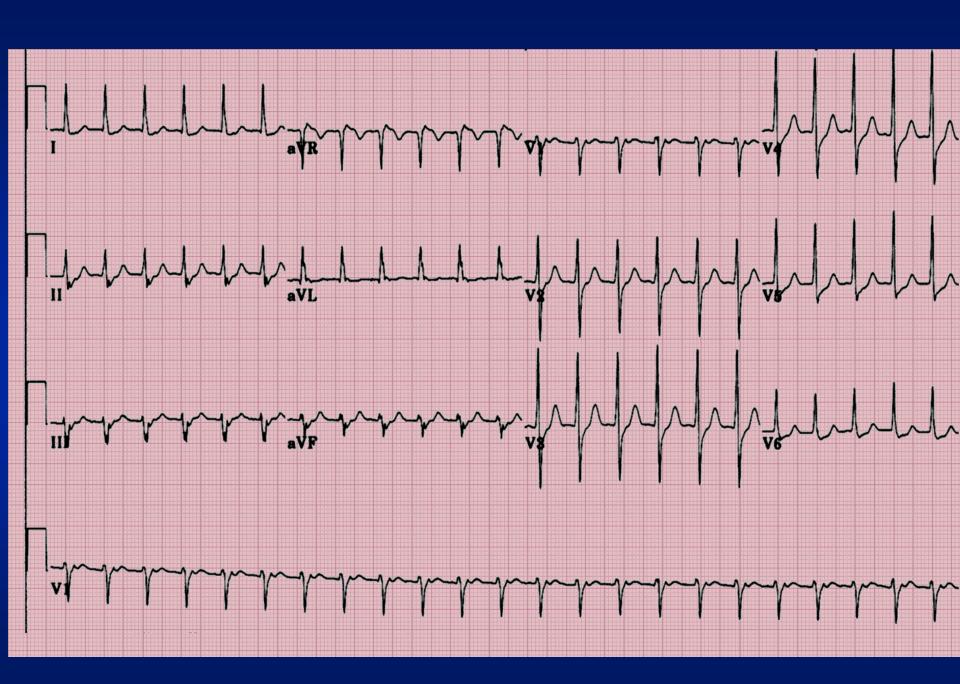
- Sinus tachycardia
- SA nodal reentry tachycardia
- Atrial tachycardia /PAT/MAT
- Atrial flutter
- Atrial fibrillation
- AVNRT (AV nodal reentrant tachycardia)
- AVRT (AV reentrant tachycardia)
- Junctional tachycardia



Atrial Flutter



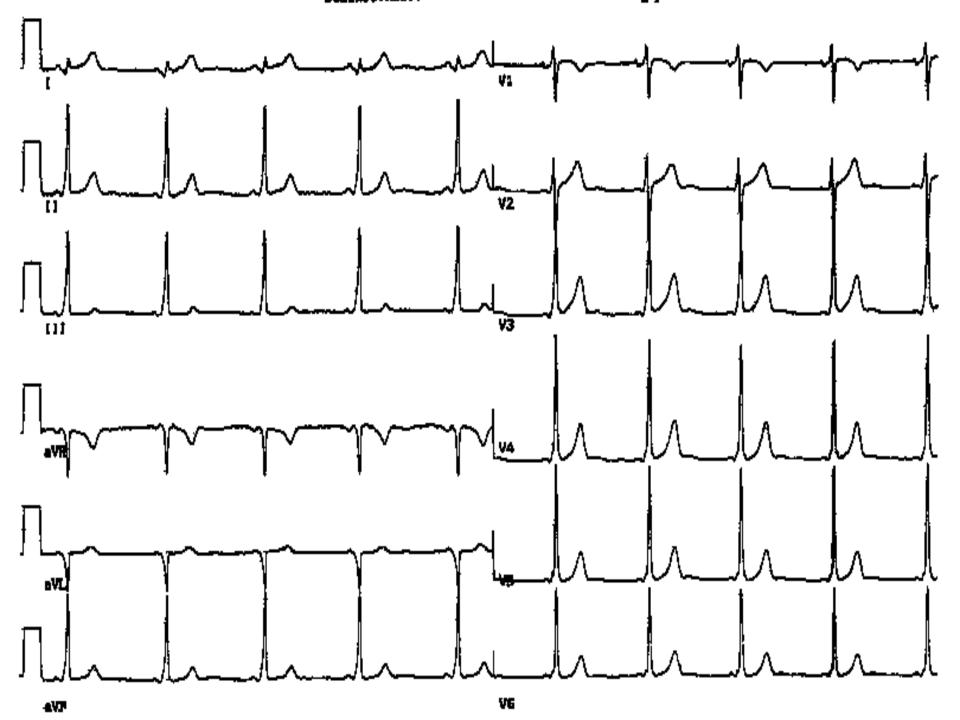




What is your management?

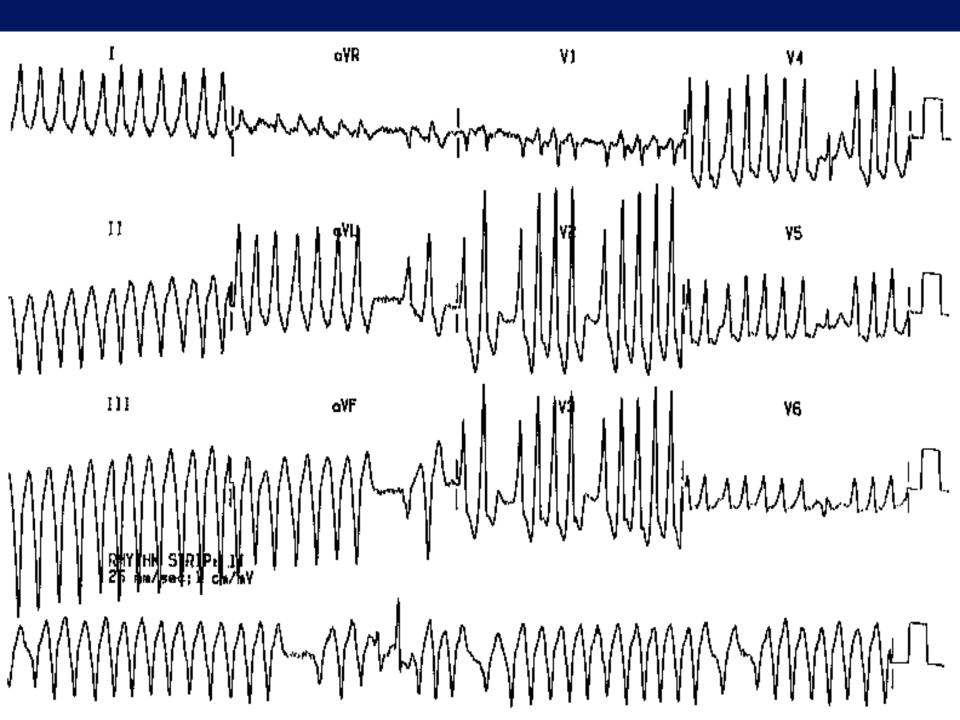
Management Narrow Complex tachycardia

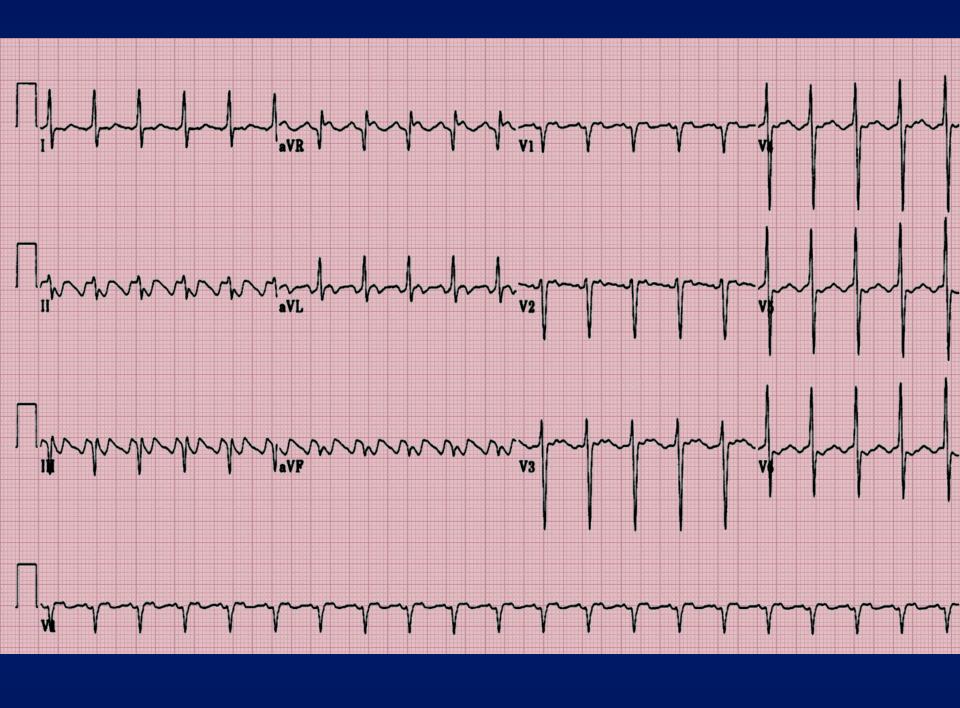
Serious signs and symptoms Stable clinically Vagal maneuvers Immediate Cardioversion Adenosine or Verapamil Consider BB, Diltiazem, or Digoxin



WPW

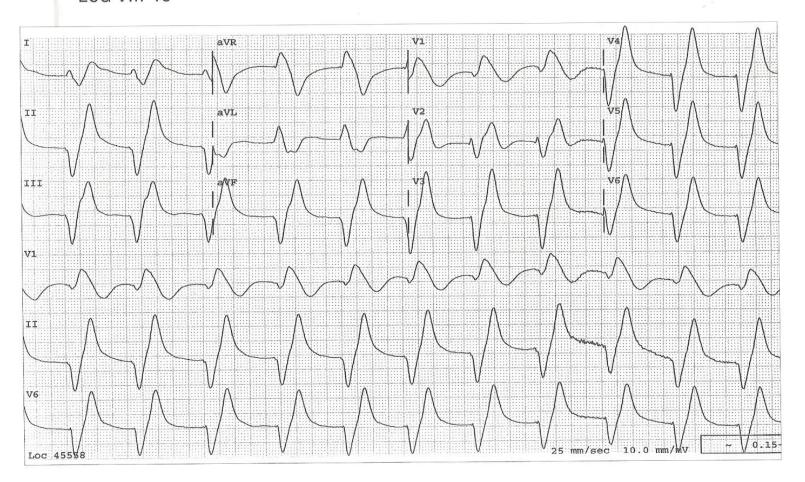
- Short PR interval, less than 3 small squares (120 ms)
- Slurred upstroke to the QRS indicating pre-excitation (delta wave)
- Broad QRS
- Secondary ST and T wave changes
- An accessory pathway, bundle of Kent, exists between atria and ventricles and causes early depolarisation of the ventricle.





200928 43"MUG"11 Male ASSUMED TO BE 50 YEARS OLD FOR PURPOSE OF ECG INTERPRETATION N, V-RATE 119-165......var'd rate, irreg atrial activityQRSd>120, terminal axis(90,270) .ST > .20mV, Q >35mS, I aVL V5 V 368 QTc 574 --AXIS--140 - ABNORMAL ECG --29 Unconfirmed Diagnosis aVL F 60- 0.15-150 Hz

ECG VIII-15



WCT

• It has to be wide: QRS complex >0.12

It has to be fast: HR >100

Step # 1 determine if the patient is stable

1- Hemodynamically unstable: ACLS protocol

 2- Hemodynamically stable: Go to step#2

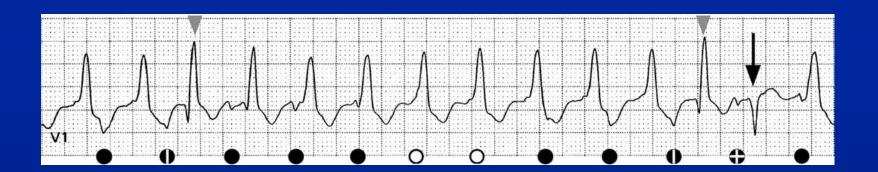
Step#2 Is this VT or others

- DDx for WCT:
- 1- VT 70%- 80%
- 2- SVT with abberation
- 3-AF with BBB
- 4- AF with WPW
- 5-Paced rhythm
- · 6-Sinus tachycardia with BBB

Step #3 EKG criteria

- 1-QRS duration
- 2-QRS axis
- 3-QRS concordance
- 4-AV dissociation
- 5-Fusion and capture beat
- 6-Specific pattern in V1
- 7-Absent RS in precordial leads

• Fusion and capture complexes:



WCT Causes:

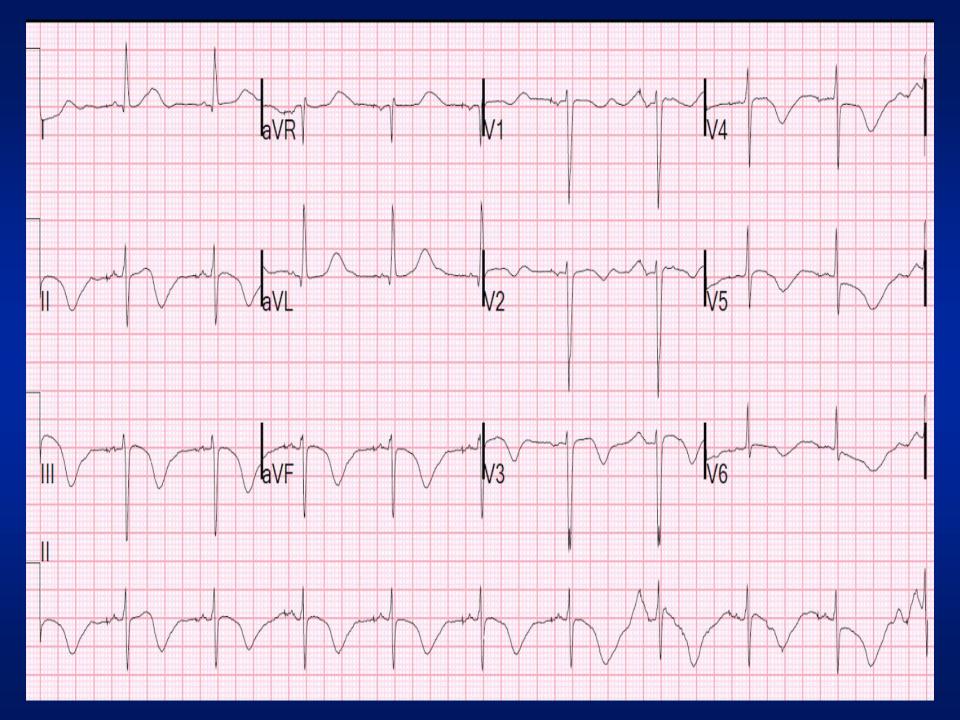
1-Cardiomyopathy (Ischemic HD/DCM)

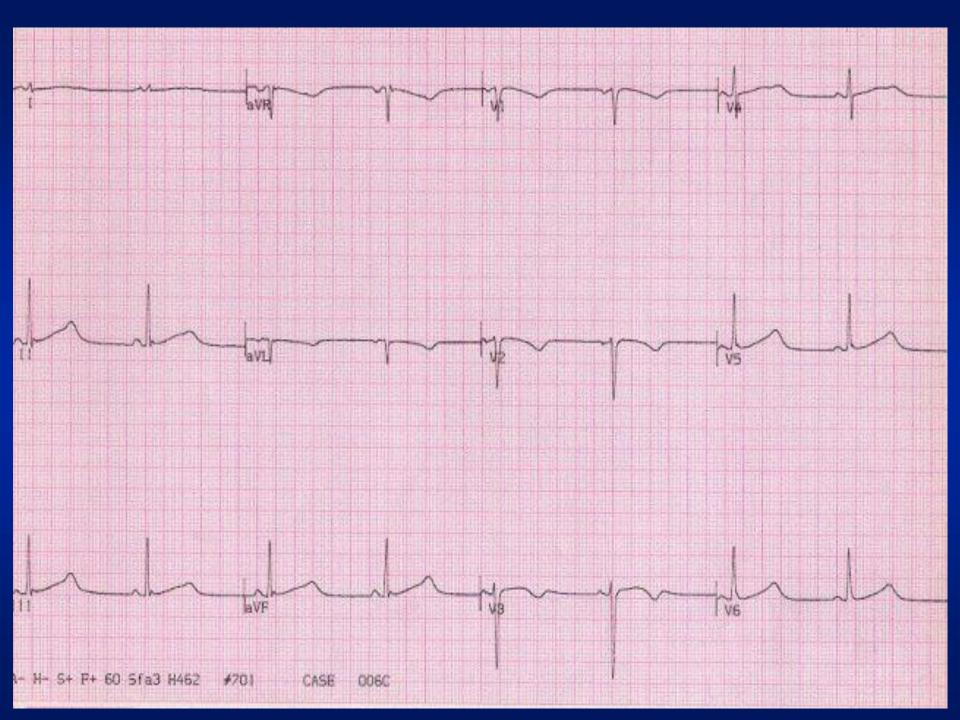
2-Idiopathic VT

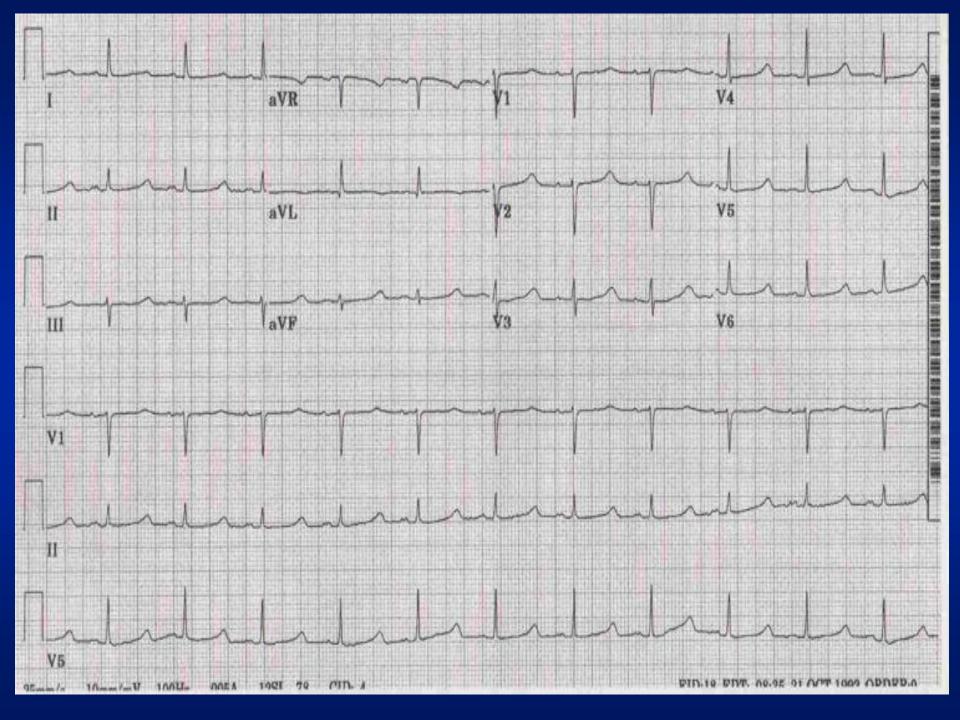
3-Inherited arrhythmias

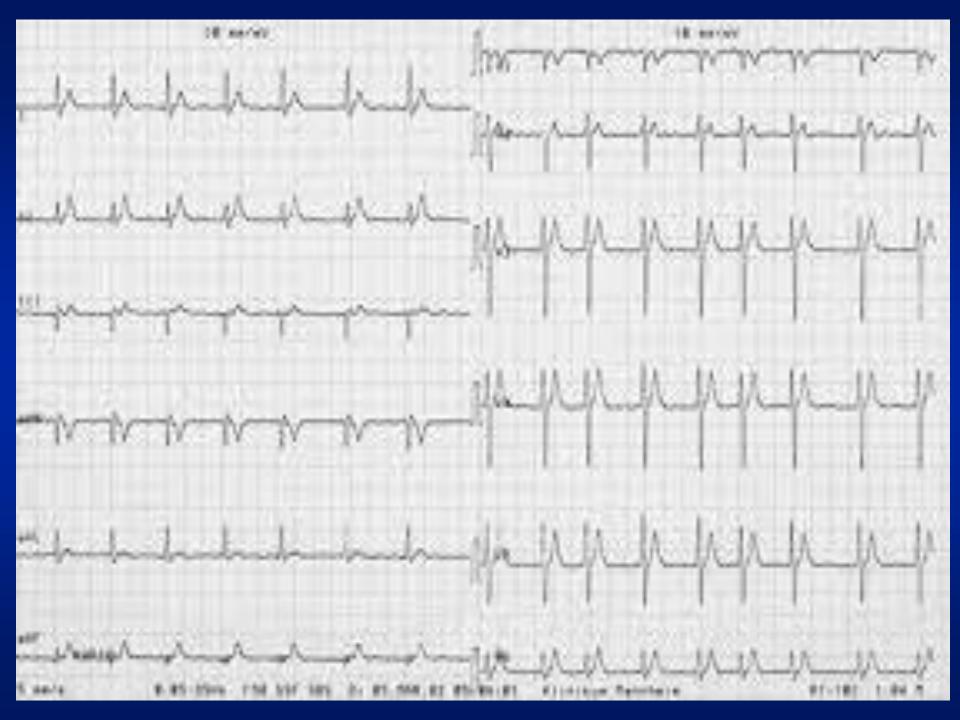
Inherited Arrhythmias

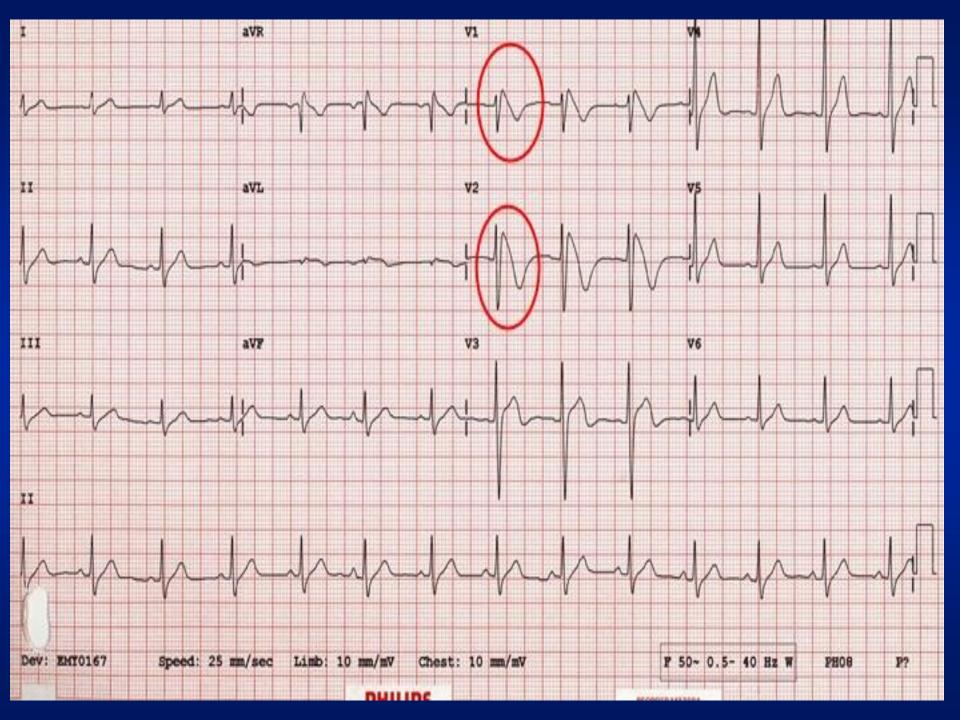
- Long QT
- Short QT
- Brugada Syndrome
- Catecholamine Polymorphic VT
- Arrhythmogenic Right Ventricular Dysplasia (ARVD)
- Hypertrophic Cardiomyopathy





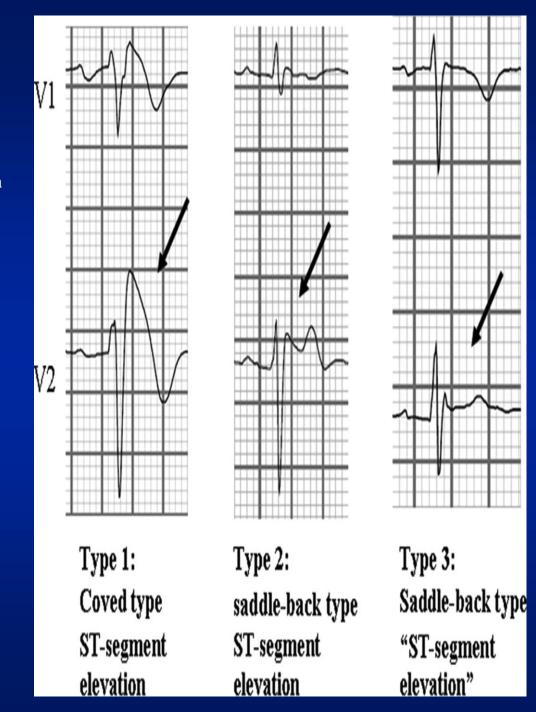




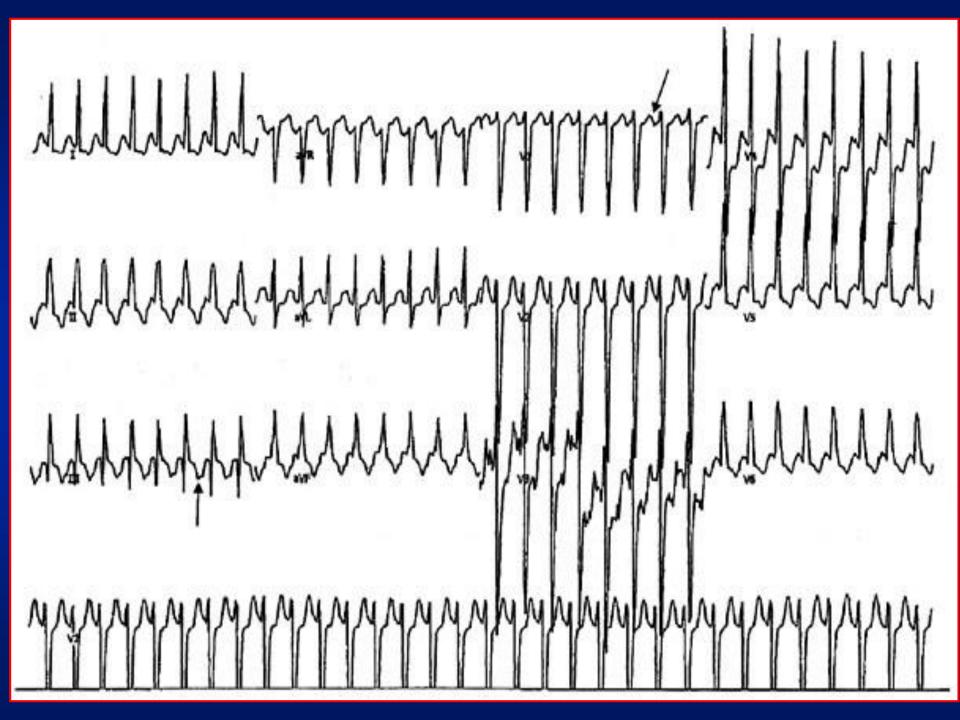


• Type 1 (DIAGNOSTIC)

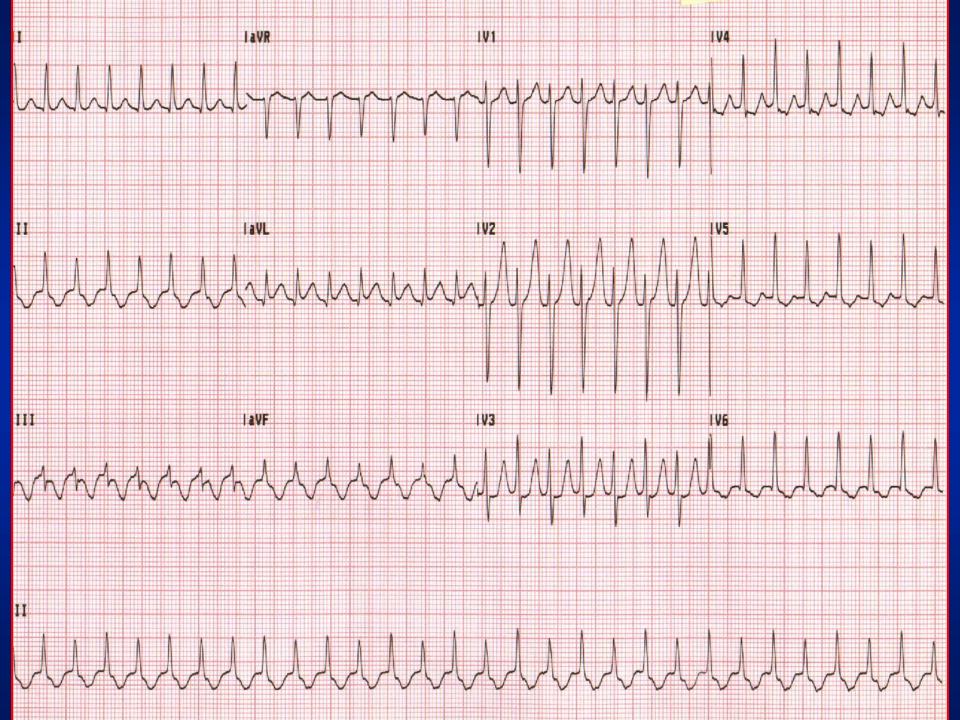
- Coved ST elevation ≥ 2mm with negative T wave
- †sensitivity by moving V2/V3 from 4th to 2nd/3rd intercostal space
- **Type 2**
 - Saddleback ST elevation ≥ 2mm w/ ST trough ≥ 1mm
 - Positive/biphasic T wave
- **Type 3**
 - Coved/saddle ST elevation ≥ 2mm w/ ST trough < 1mm
- Also reported in inferior leads and left precordial leads
 - Some individuals also had SCN5A mutation

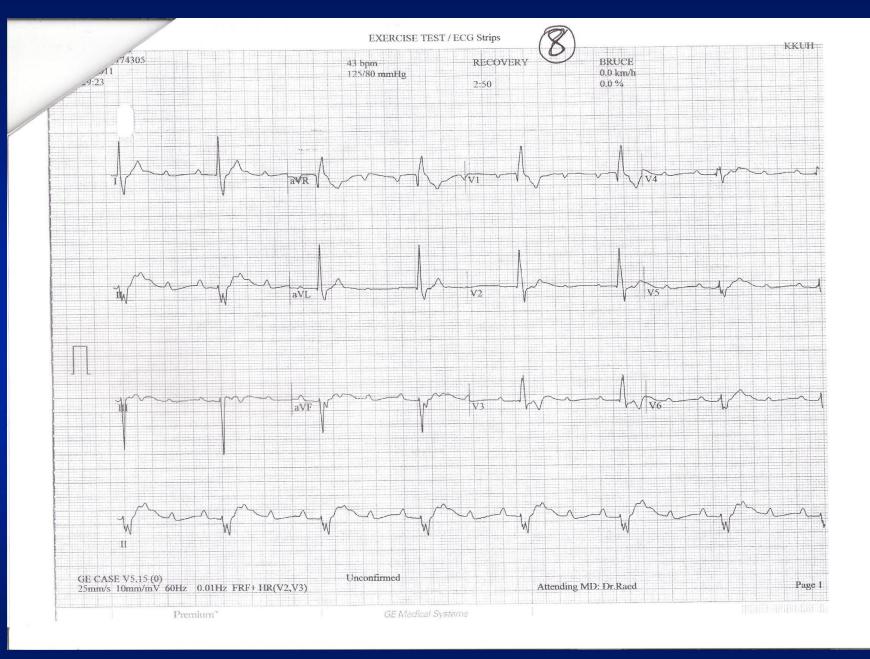


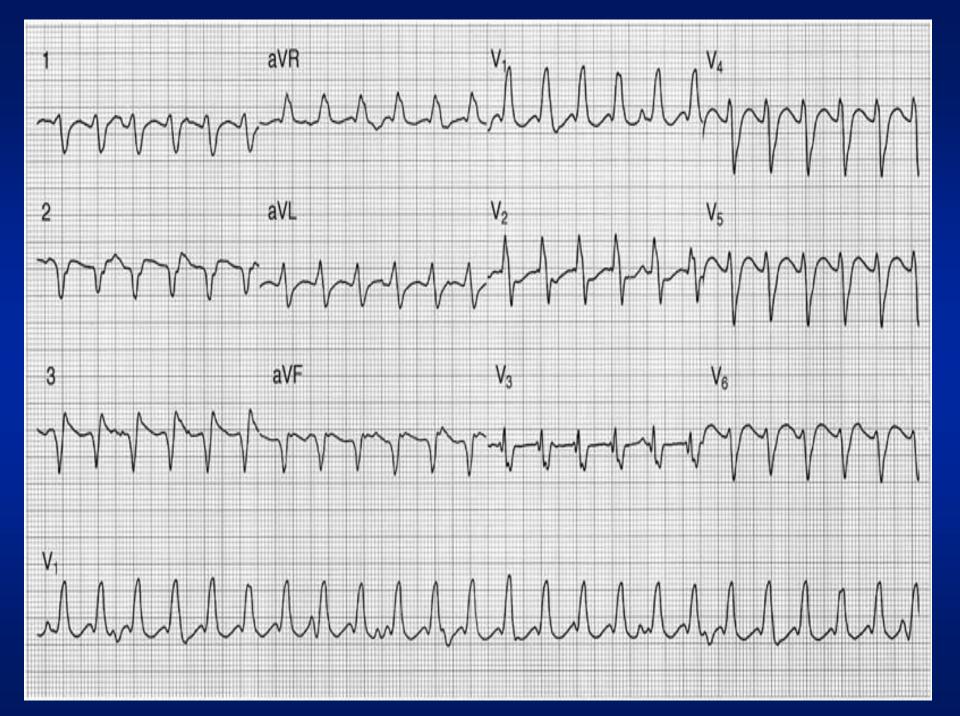


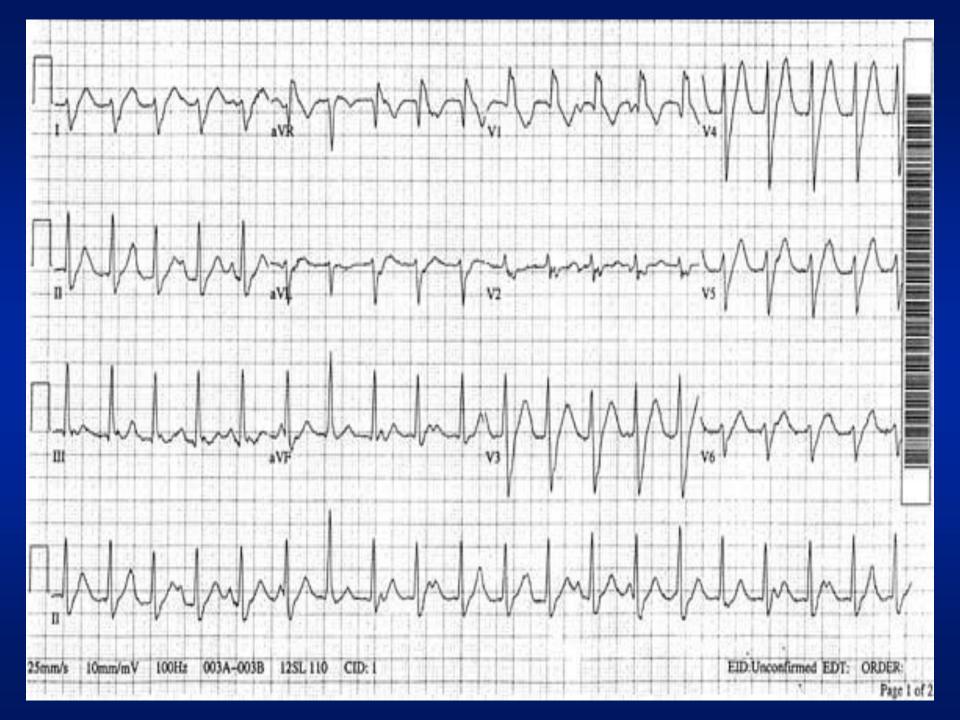


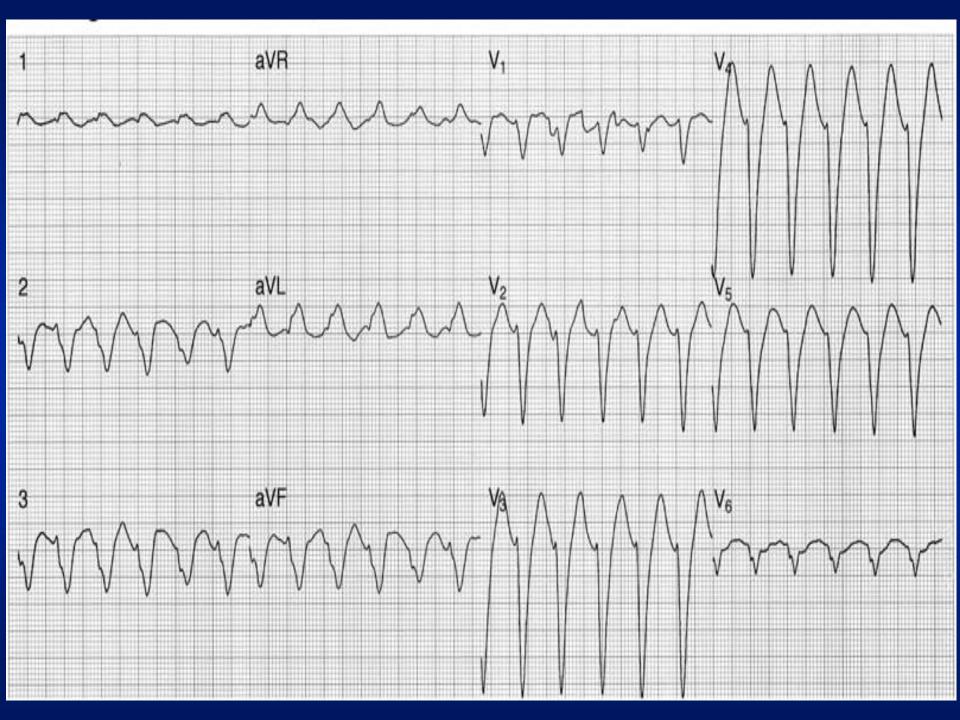
8/3/2011 12:32:35 AM Rate 193 NOT FIRST. ASSUMED TO BE 50 YEARS OLD FOR PURPOSE OF ECG INTERPRETATION PR 56 ____.long R-R interval, normal QRSd QRSD 136 QT 340QRSd >110mS, not LBBB/RBBB QTC 610 DELAY × 9 8 5 2 4 1 ×
SHERIN SALAH SALEEM S/B Du. Bance --AXIS--DOB: 27/08/1979 P 0 Nationality EGYPTIAN QRS 90 - ABNORMAL ECG -T 267 Unconfirmed aVR II aVL III II Dev: Chest: 10.0 mm/mV Speed: 25 mm/sec Limb: 10 mm/mV F 60~ 0.15-100 Hz PH090A b L P?

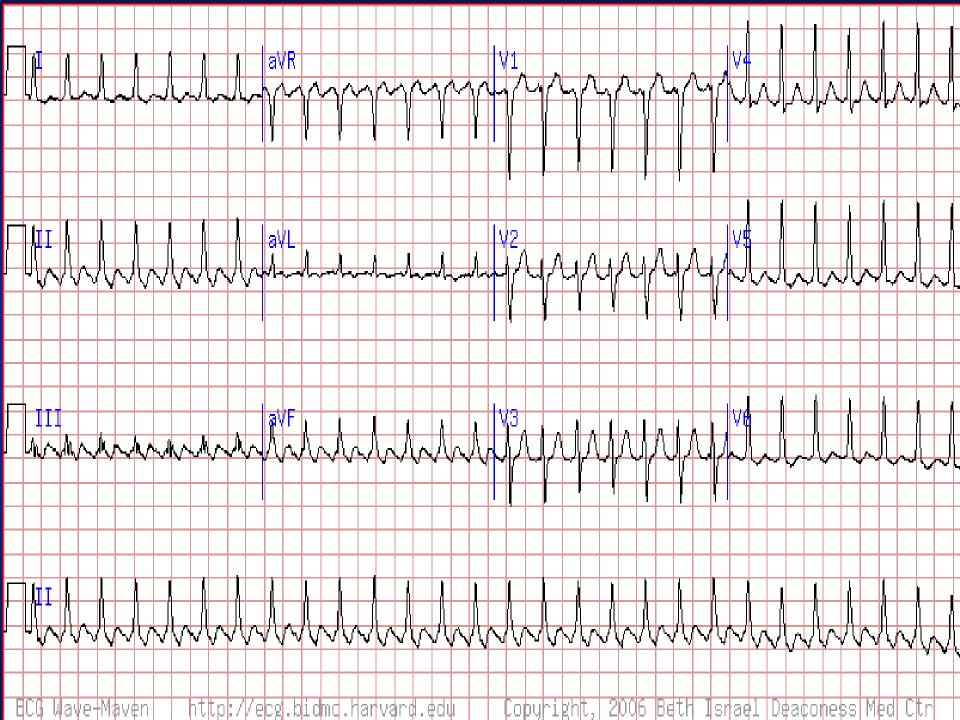


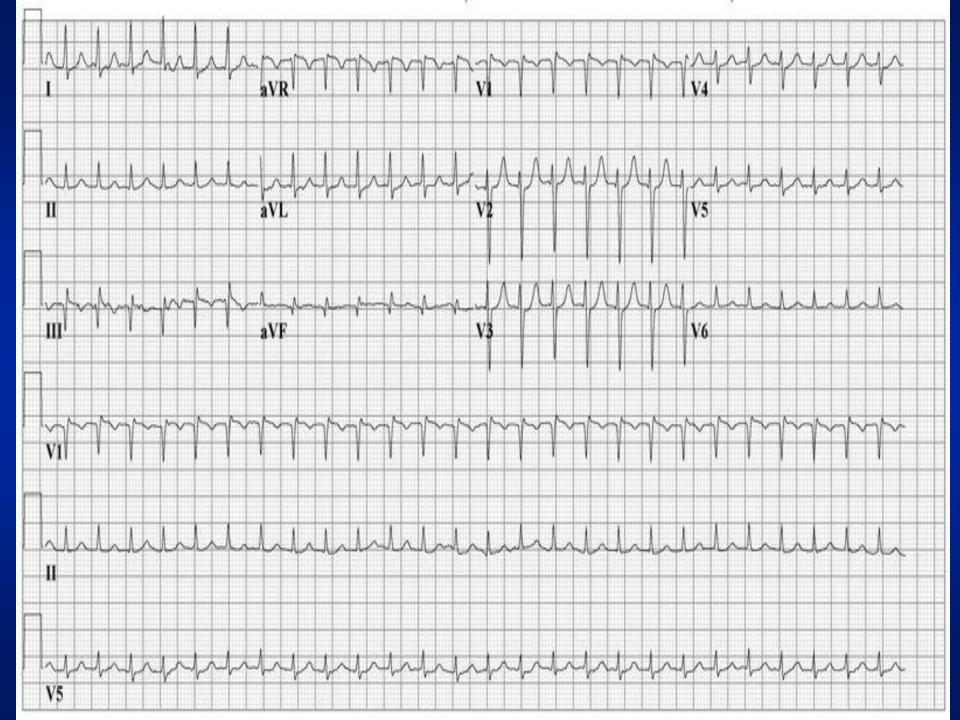


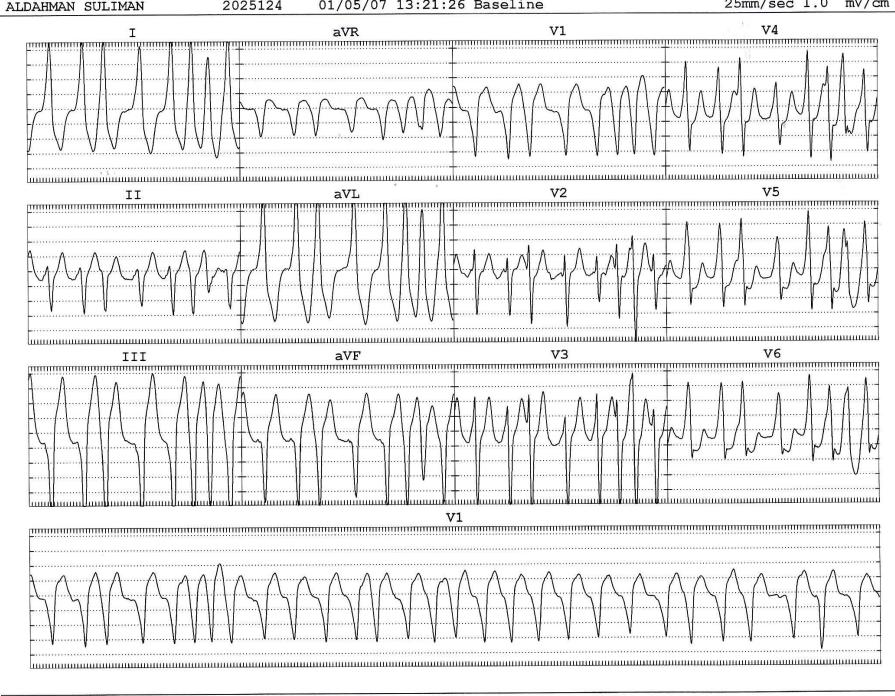


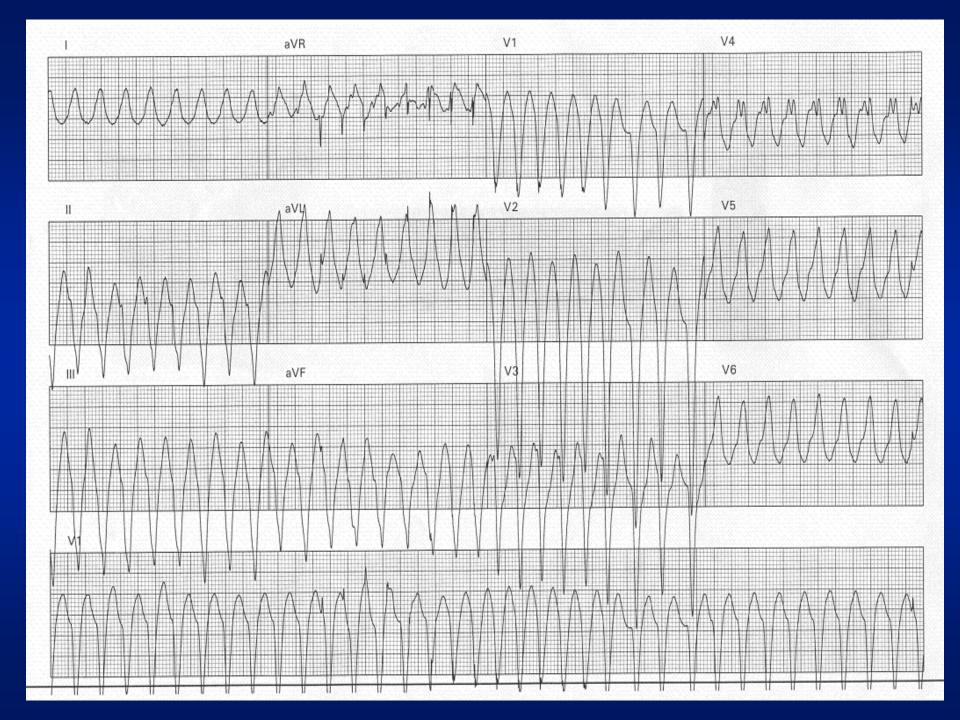




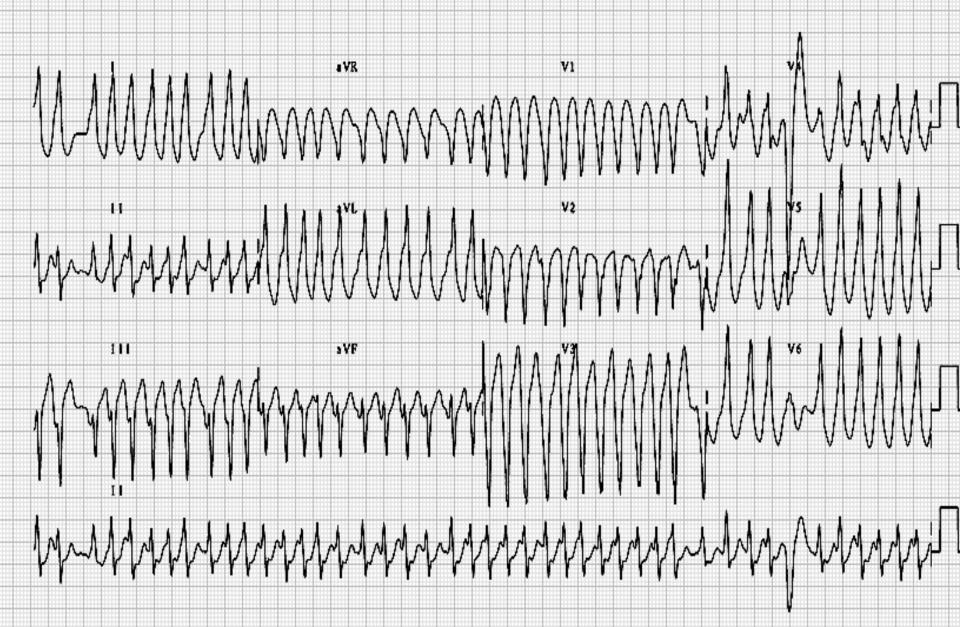


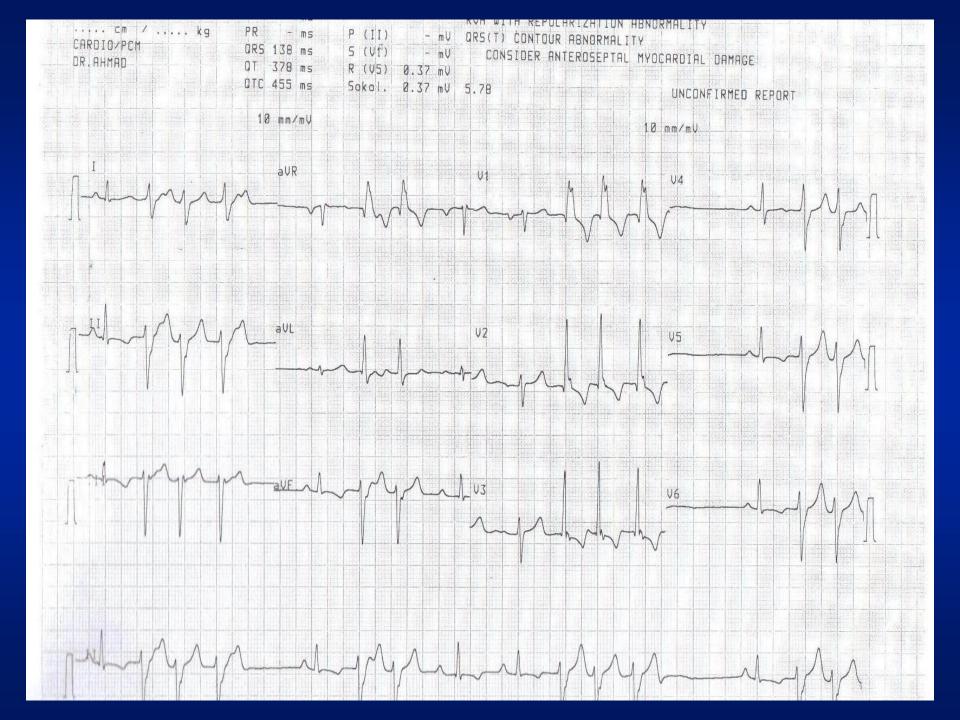


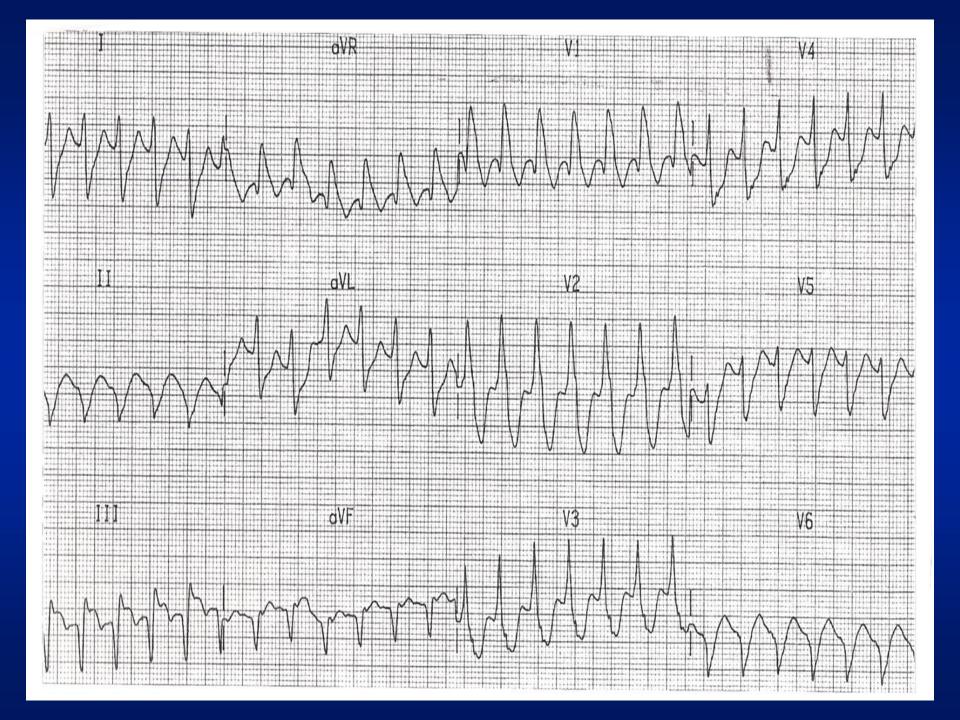




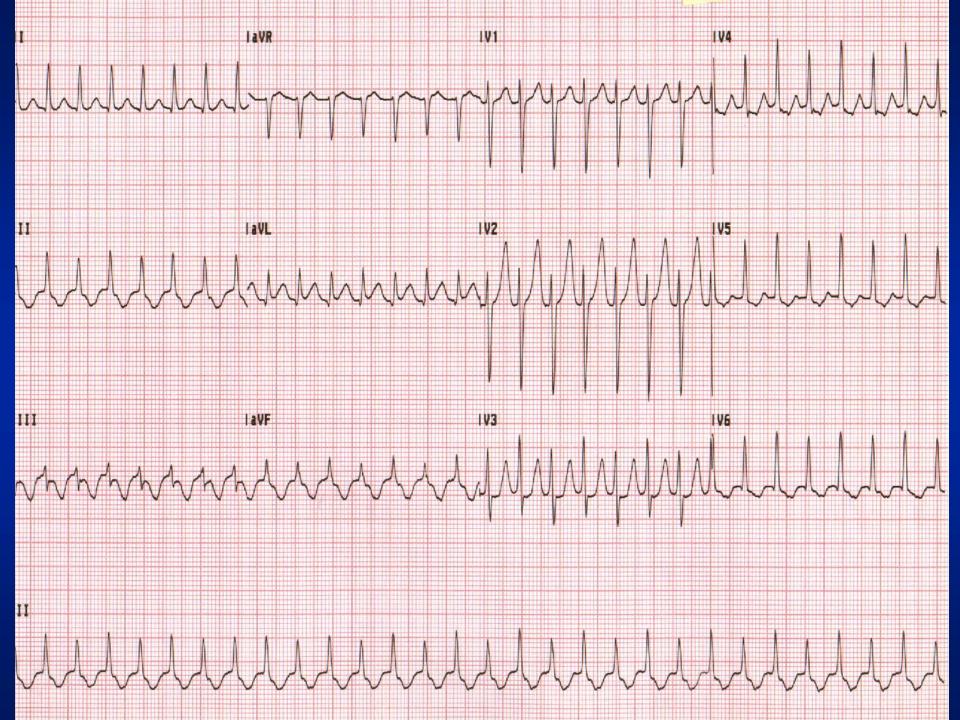
A 23 year old man with episodes of palpitations.

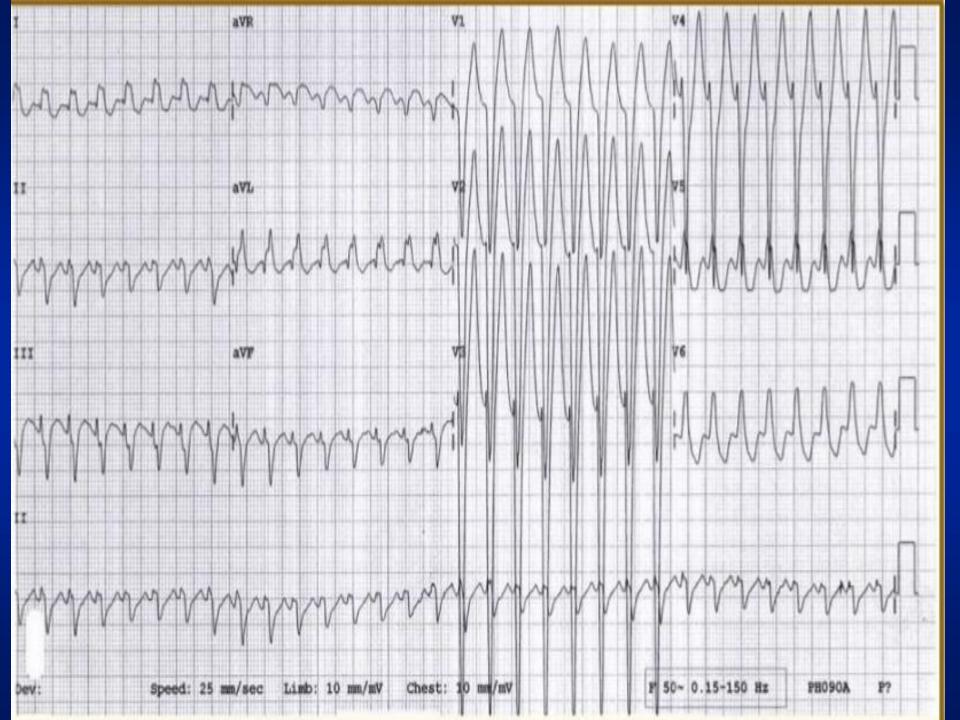












8/3/2011 12:32:35 AM

	`	
Rate	193	. AGE IS NOT ENTERED, ASSUMED TO BE 50 YEARS OLD FOR PURPOSE OF ECG INTERPRETATION . WIDE COMPLEX TACHYCARDIA
PR QRSD	56 136	SINUS PAUSE/ARREST W/ SUPRAVENTRICULARlong R-R interval, normal QRSd ESCAPE
QT QTc	340 610	. NONSPECIFIC INTRAVENTRICULAR CONDUCTIONQRSd >110mS, not LBBB/RBBB DELAY
AXI	s	S/B Du. Samee
P	0	
QRS T	90 267	- ABNORMAL ECG - Unconfirm

1 I MRITTA DELINE I BILINE I BERTAL I INC. 1241 * 9 8 5 2 4 1 * SHERIN SALAH SALEEM DOB: 27/08/1979 Sex: F Nationality EGYPTIAN

Unconfirmed

0 II aVL V2 III II Dev: Speed: 25 mm/sec Limb: 10 mm/mV Chest: 10.0 mm/mV F 60~ 0.15-100 Hz PH090A b L P?

Thank you