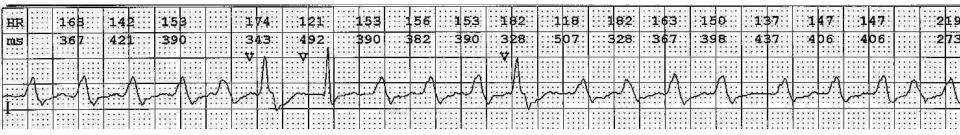
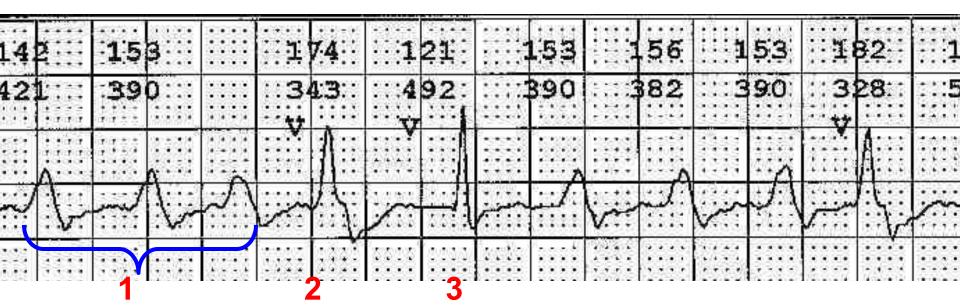
Thank you for this difficult ECG

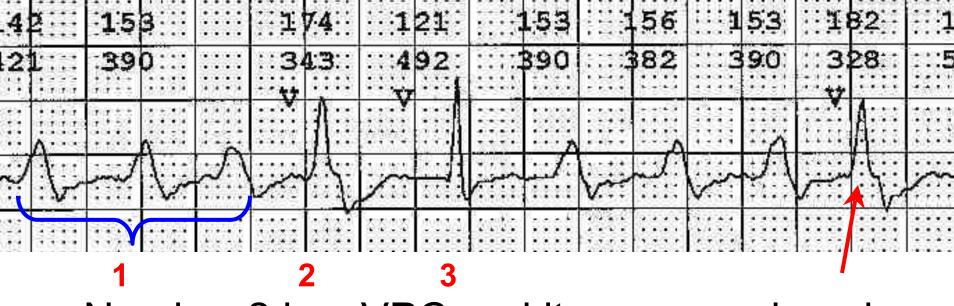


- This is totally irregular rhythm
- This suggest AF, (DD: Atrial Tachycardia)
- There is no clear P waves, despite there is some atrial activity /



- The QRS is wide, >160 ms, this may be due underlying structural heart disease or tachycardia induced aberrancy.
- The presence of irregularity and no clear AV dissociation excludes VT
- BUT, there is 2 beats with different morphology from 1

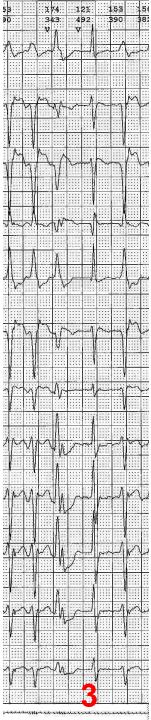




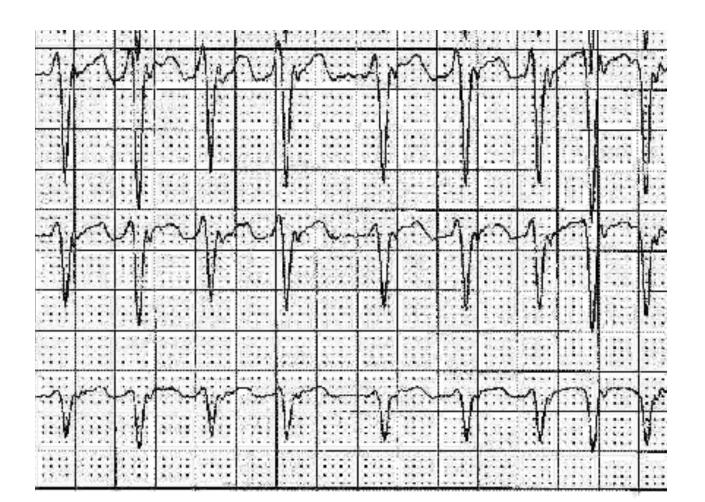
Number 2 is a VPC and it reoccurred again

 The other is looks here narrow, but when we look in other leads it is wide and changes the axis of RBBB pattern

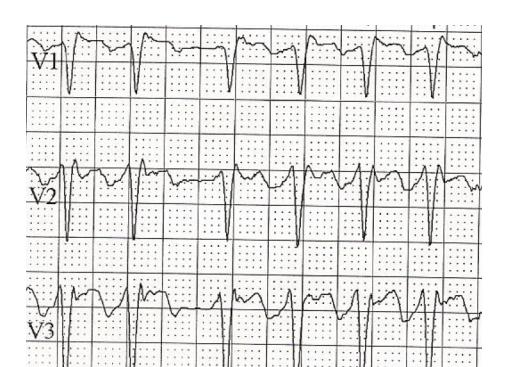
 I think this again is another VPC of different origin



 The patient has also Electrical Alternance which is more clear in the chest leads



- He also has Qs in the inferior leads, and loss of forces in the chest leads which may suggest underlying structural heart disease.
- BUT he also has ST segment elevation in the chest leads in V1- V3 suggestive of Brugada Syndrome type 2
- Despite its appearance is atypical due to the presence of the atrial activity and it is not characteristic of BrS and



Now.....

Can you give me some clinical hints.

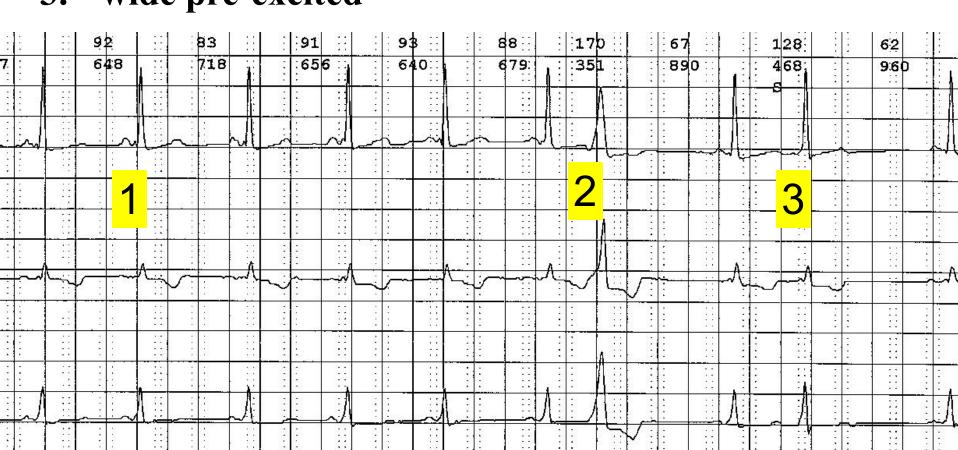
Thank you very much

Raed

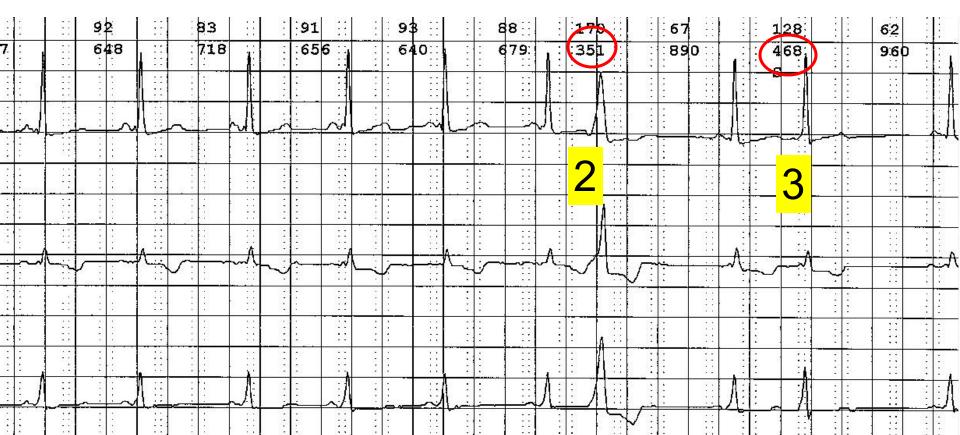
Thank you for this challenge

Raed Abu Sham'a

- Sinus Rhythm
- Frequent APCs
- Three different QRS morphology:
- 1. regular sinus
- 2. narrow pre-excited
- 3. wide pre-excited

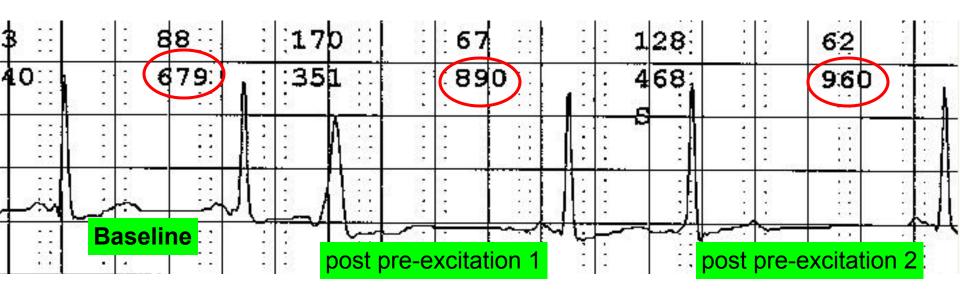


- The narrow pre-excited beat (3)always has a longer cycle length before the APC
- While the wide pre-excited (2) has a shorter CL
- The wider QRS with shorter CL because the normal pathway is still refractory, while the other one may be fusion due to partial refractory period



Now....

 Why post the pre-excited there is a long CL (R - R or P- P) and longer pause than the baseline cycle length?



- I think there is some non conducted APCs after the pre-excited beats
- So... we have 3 different P wave morphologies.





In Conclusion

- A case of WPW syndrome
- ? Multi-focal Atrial Tachycardia
- 12 lead ECG would be more helpful
- I would recommend Exercise Stress Test for more evaluation
- RF ablation is the treatment of choice
- If not available or the patient refused, then class la drugs may be a reasonable option

Thank you very much