

Case1.2017

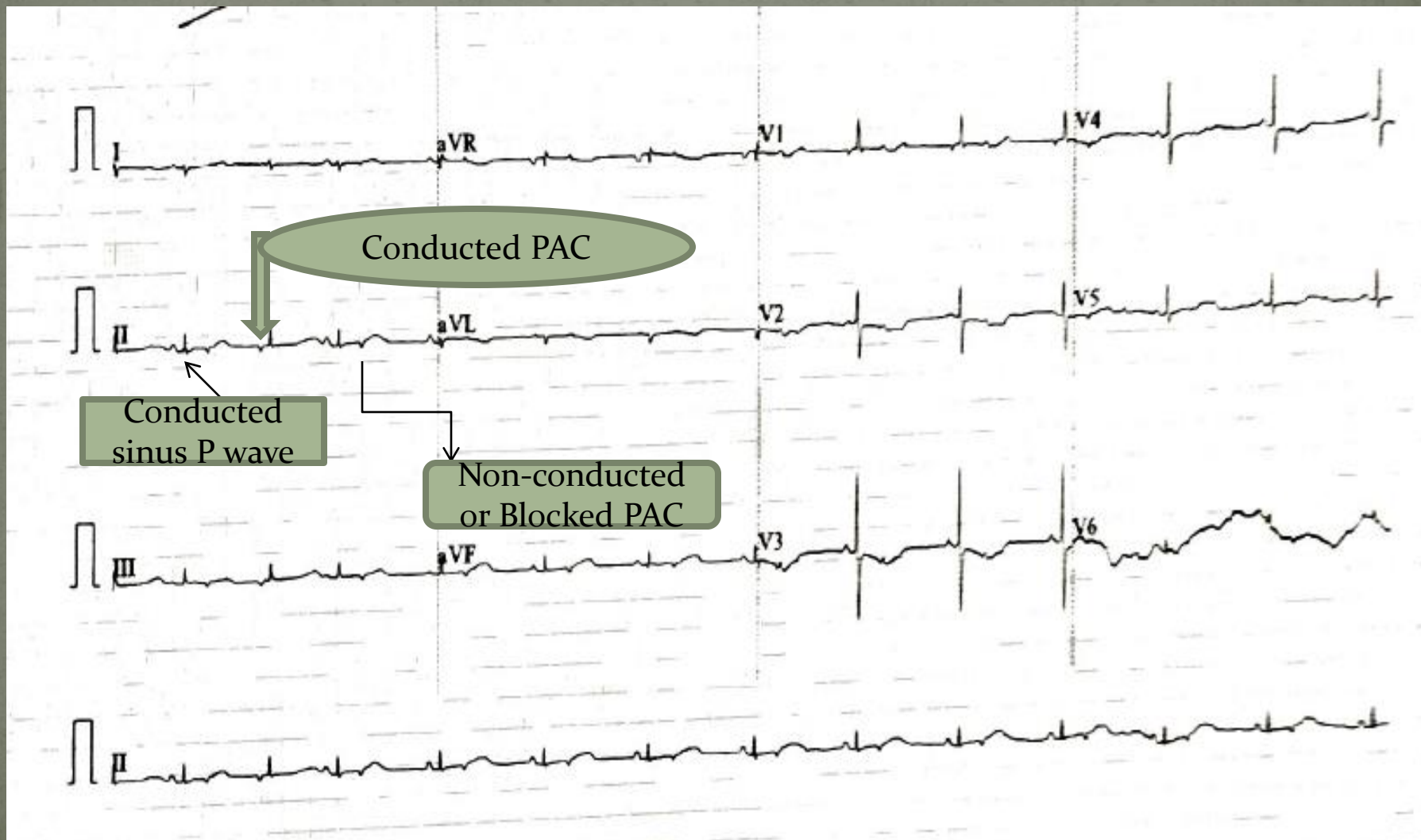
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5 month old baby presented with tachycardia and bradycardia at different times.

Can you comprehend the ECG?

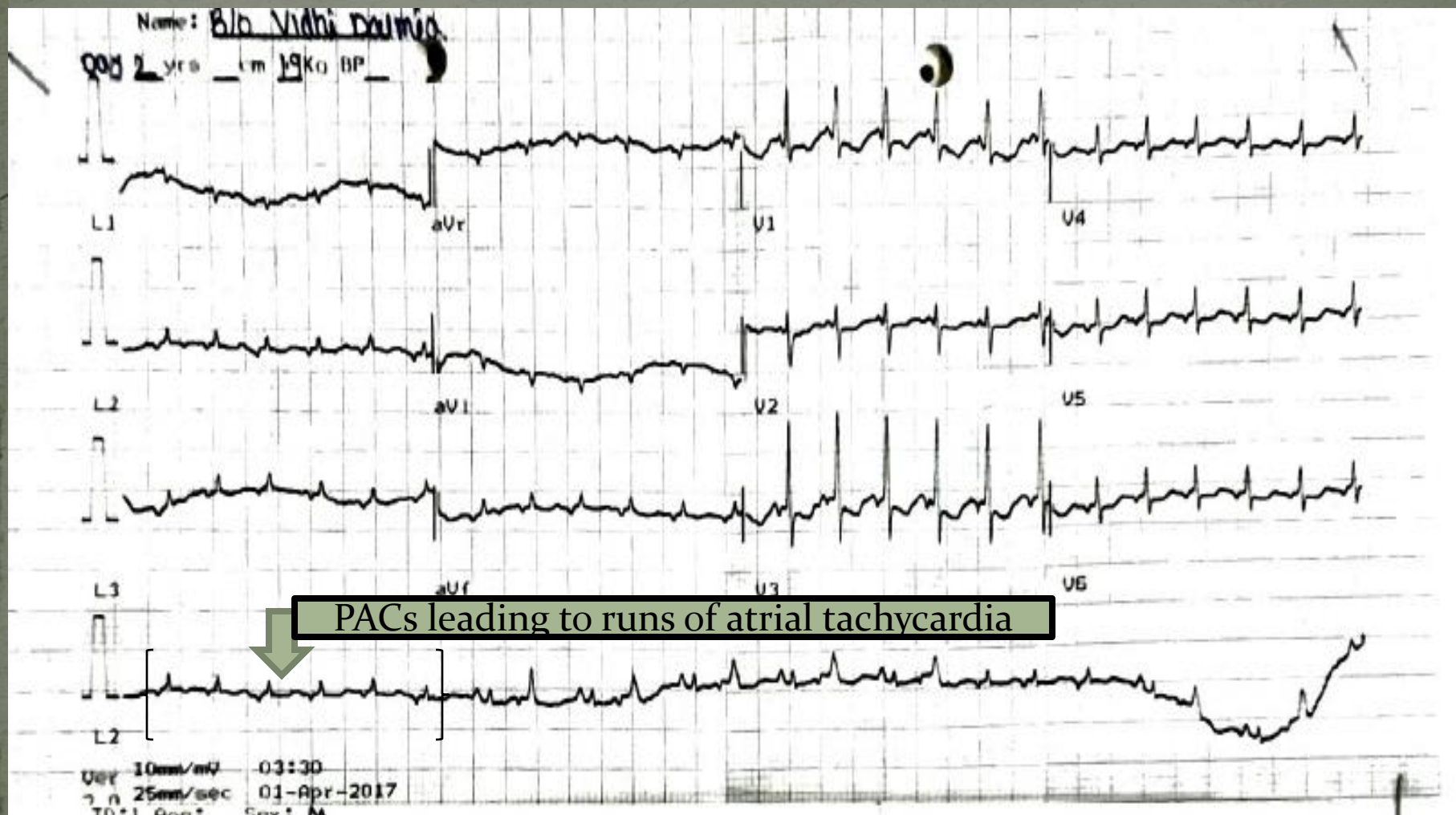
ECG shows *Bradycardia*



Explanation:

- *Conducted sinus P wave:* Note the 12-lead P wave morphology suggests a sinus origin of the P wave. This is normally conducted giving rise to a QRS complex.
- *Conducted PAC:* This P wave morphology suggests a PAC because the P wave is “different” i.e negative or inverted in leads II, III and AVF. However, the PAC conducts normally giving rise to a QRS complex.
- *Non-conducted or Blocked PAC:* This PAC does not conduct to result in a PAC, hence there is a bradycardia.

ECG shows *Tachycardia*



Explanation:

- The marked strip of the ECG shows that the earlier identified P wave (negative P wave morphology in leads II and III), a PAC, results in a short run of atrial tachycardia. These can be noted to be repetitive in the rhythm strip at the bottom.

Exercise: *Can you identify the features described in the previous 2 slides?*

