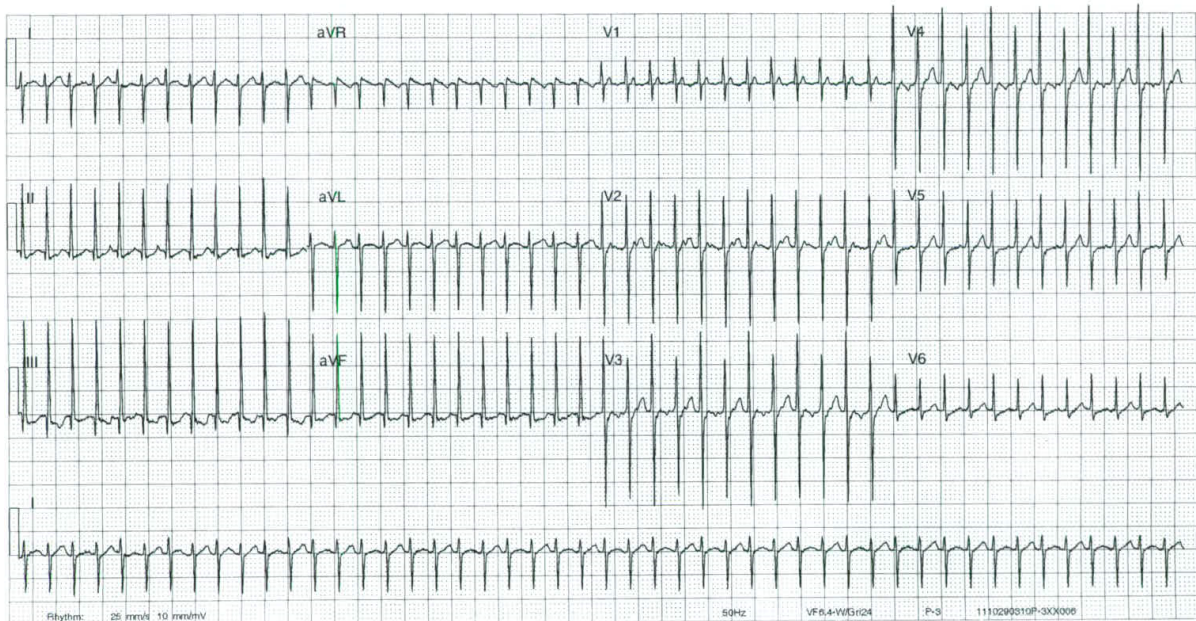


SAQ 20

A 12 day old girl presents to ED with poor feeding and increased work of breathing. On examination she is drowsy and has widespread crepitations on auscultation of the chest with central capillary refill time of 3 seconds. Her vital signs:

T 36.8, SBP 70, RR 80, sats 93% RA. An ECG is performed.



a. What is the diagnosis (1 mark)

- SVT

b. List four (4) ECG findings to support your diagnosis (4marks)

- Narrow complex tachy
- Rate 288
- Regular
- R Axis deviation
- No P waves or retrograde
- Right heart dominant (paed)

No rate related ischaemia, not about R wave progression, no delta wave

Tachycardia - must give a rate, accepted 250+

“Normal QRS” - what does that mean?

Alternating amplitude of QRS V3/4 not supporting Dx SVT

c. State Four (4) initial management priorities for management of her tachydysrhythmia (4 marks)

- Resus cubicle,
- assess ABC, oxygen, , cardiac monitor and defib pads
- Call for help, ED staff, anaesthetics/ICU, cardiology
- IV or IO access - blds, **NO fluid bolus**
- Adenosine 0.1-0.3mg/kg
- If unsuccessful/further compromise:
 - DCR synch shock 1J/kg, repeat at 2J/kg,
 - Then consider amiodarone

ISSUES

1. Fluid bolus 20ml/kg - APO secondary to tachycardia. Max 2/4 for this section
 - a. Second fluid bolus = 0/4
 2. Dunking 12day old baby in tub of ice! = 0/4
 3. If no mention of Adenosine or DCR, max 2/4 this section
 4. Must know dose of Adenosine, and Jules/kg. 4J/kg = 0/4
 5. Carotid sinus massage in 12day old not feasible
 6. "Avoid adenosine" = 0/4
- d. List Three (3) further investigations for her with one (1) justification for each (6 marks)
- accepted a broad range of reasonable investigations

ISSUES

1. Ix =
 - a. U+E, Justification = to check for abnormality!! Be specific
 - b. BSL : what are you looking for and why
 - c. Pre/post ductal sats = examination
2. If the examiner can't read it they can't mark it!

Standard setting

- a) 1/1
- b) $\frac{3}{4}$
- c) $\frac{3}{4}$

d) 4/6

Passmark 11/15, 61%

1 15, 1 14.5, 1 14, 6 13, 1 12.5, 8 12, 3 11.