

Candidate name: \_\_\_\_\_

## **PAH 2019.1 trial SAQ paper**

### **PART 2**

**Questions 10 - 18**

**1 hour**

Candidate initials: \_\_\_\_\_

**Q10 (12 min)**

The ambulance service is transporting a 55 year old woman following an out of hospital cardiac arrest. They report the initial rhythm was PEA. Return of spontaneous circulation was achieved after 15 minutes of ALS which consisted of CPR, 3mg of adrenaline and intubation.

You are preparing your team to accept this patient.

- 1. With reference to the Australian Resuscitation Council (ARC) Guidelines, list 3 recommended indications for EMERGENT cardiac catheterisation in patients suffering out of hospital cardiac arrest. (3 marks)**

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

3) \_\_\_\_\_

\_\_\_\_\_

On arrival, the patient has the following vital signs:

GCS	3	
Pulse	90	/min
BP	165/96	mmHg
O2 saturation	100%	FiO2 100%
Temperature	35.5	degrees

The ambulance handover describes a sudden collapse with no preceding symptoms.

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An ECG is provided in the **PROPS BOOKLET**.

**2. List 2 key findings from the ECG. (2 marks)**

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

**3. State the clinical significance of the ECG findings. (2 marks)**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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The patient has been given no sedation or paralysis and remains GCS 3. A non-contrast CT scan of her head has been performed.

A slice of the patient's CT head is provided in the **PROPS BOOKLET**.

**4. State the diagnosis demonstrated on the CT scan. (1 mark)**

\_\_\_\_\_

**5. List 4 additional CT findings you would seek that would portend a poor prognosis. (4 marks)**

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

3) \_\_\_\_\_

\_\_\_\_\_

4) \_\_\_\_\_

\_\_\_\_\_

Shortly after the CT scan, the patient has become hypoxic and the ventilator is alarming due to high pressure measurement.

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6. In the table, list 5 possible causes for these problems. For each provide a supportive assessment finding (history, examination, investigation), and the key intervention required to manage the problem. (15 marks)

Cause	Assessment finding	Key intervention

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**Q11**

A 52 year old man has presented after rolling his quadbike. He is conscious but complains of severe right-sided chest pain. Your assessment, including a CT scan, has revealed fractured ribs 5 – 10 on the right side with a small pneumothorax.

His only other injury is a closed ankle fracture which has been placed in a plaster backslab.

- 1. List 3 indications for the insertion of an intercostal catheter (ICC) in this patient. (3 marks)**

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

3) \_\_\_\_\_

\_\_\_\_\_

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You have decided that ICC insertion is not currently warranted.

You are completing the admission of the patient directly to a surgical unit for review on the ward in the next 4 hours.

2. State 4 analgesic options, including doses, that you could use. For each, indicate 1 contra-indication to its use, NOT including allergy. (8 marks)

Analgesic option with dose	Contra-indication

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**Q12**

A 35 year old man has been brought to your ED after collapsing during a half-marathon. His temperature is 41 degrees.

Your provisional diagnosis is of heat stroke.

1. List 4 early complications of heat stroke. (4 marks)

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2. List 4 invasive measures you might use to cool this patient. State the clinical indication for each method. (8 marks)

Invasive measure	Clinical indication

Candidate initials: \_\_\_\_\_

**Q13**

A 20 year old man has presented with chest pain and difficulty breathing. He has no known medical problems.

His chest x-ray is provided in the **PROPS BOOKLET**.

1. Give the diagnosis. (1 mark)

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2. List 2 supportive radiographical abnormalities. (2 marks)

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3. List 3 possible treatment options for this man. State the clinical circumstance in which you would use each option. (6 marks)

Treatment option	Appropriate clinical circumstance

**Q14**

A 27 year old man has presented to ED one hour after being bitten by a snake on his right hand. He is complaining of pain at the bite site. A pressure immobilisation bandage (PIB) has been applied.

- 1. List 4 conditions that must be met for removal of the PIB. (4 marks)**

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The patient is complaining of double vision in all directions of gaze.

A clinical photograph is provided in the **PROPS BOOKLET**.

- 2. List 2 significant abnormalities demonstrated. (2 marks)**

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- 3. What is the diagnosis? (2 marks)**

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4. List 3 species of snakes that might cause this clinical picture. (3 marks)

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**Q15**

A 2 year old girl has been brought to the ED after having a seizure at home.

- 1. List 4 criteria necessary for the diagnosis of simple febrile convulsion. (4 marks)**

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Your assessment is of a simple febrile convulsion. No clear source of the fever has been identified.

- 2. List 4 investigations you might perform. Include the clinical indication for each investigation. (4 marks)**

Investigation	Clinical indication

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Following a brief period of observation, the child's mother has asked to take her daughter home.

**3. List 4 conditions that would need to be met to allow safe discharge. (4 marks)**

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

3) \_\_\_\_\_

\_\_\_\_\_

4) \_\_\_\_\_

\_\_\_\_\_



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**Q16**

A 3 week old boy has been taken to hospital by her mother. The mother is concerned that the child will not stop crying.

**1. List 5 findings on history that would indicate the need for further investigation. (5 marks)**

- 1) \_\_\_\_\_  
\_\_\_\_\_
- 2) \_\_\_\_\_  
\_\_\_\_\_
- 3) \_\_\_\_\_  
\_\_\_\_\_
- 4) \_\_\_\_\_  
\_\_\_\_\_
- 5) \_\_\_\_\_  
\_\_\_\_\_

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The child's vital signs are within normal limits.

2. List 6 examination findings that you would seek to identify. Explain the relevance of each.  
(6 marks)

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

3) \_\_\_\_\_

\_\_\_\_\_

4) \_\_\_\_\_

\_\_\_\_\_

5) \_\_\_\_\_

\_\_\_\_\_

6) \_\_\_\_\_

\_\_\_\_\_

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**Q17**

A 35 year old woman has presented to the ED with a rash over her trunk and arms.

A clinical photograph has been provided in the **PROPS BOOKLET**.

- 1. List 3 descriptive features of the rash. (3 marks)**

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Your registrar has suggested that the diagnosis might be erythema multiforme.

- 2. List 3 possible causes of erythema multiforme. (3 marks)**

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3. List 3 differential diagnoses. For each, state an important feature of your overall assessment (history, examination, investigation) that would support the diagnosis.  
(6 marks)

Differential diagnosis	Assessment feature

**Q18**

A 50 year old woman has presented with a painful, red left eye.

- 1. List 5 differential diagnoses. For each, give a cardinal examination finding that would support the diagnosis. (10 marks)**

Diagnosis	Cardinal examination finding