

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

## **PAH 2018.2 trial SAQ paper**

### **PART 3**

**Questions 19 - 27**

**1 hour**

**Q19**

A 3 year old girl has been brought to the ED by her parents with cough and fever for 3 days. The child has become increasingly lethargic.

Your assessment is consistent with severe community acquired pneumonia requiring urgent intubation.

There are no obvious anatomical factors that would complicate intubation.

The child's vital signs are:

Temperature	39.5	degrees
Pulse	170	/min
BP	65/40	mmHg
RR	50	/min
O2 saturation	85%	6L O2 via Hudson mask
Weight	15	kg

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1. List 2 main difficulties you will encounter in safely intubating this patient. For each, provide 3 strategies you will employ to manage the difficulty. (8 marks)

Difficulty	Strategies

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**2. List your initial ventilator settings. (4 marks)**

Tidal volume (mL)	
Respiratory Rate (/min)	
FiO2 (%)	
Inspiratory Pressure Limit (cm H2O)	

**Q20**

An 18 year old man has been taken to the ED by an ambulance crew. He was found outside a music festival with altered behaviour, after having a seizure.

On arrival to the ED his vital signs are:

GCS	13	E4 V4 M5
Temperature	39.5	degrees
Pulse	120	/min
BP	135/70	mmHg
O2 saturation	99%	room air

Shortly after arrival, he has another self-limiting seizure. There is no evidence of trauma.

- 1. List 4 likely differential diagnoses for the cause of this presentation. For each, state the assessment findings (history/examination/investigation) that would confirm its presence and state the management you would institute in the ED. (12 marks)**

**Diagnosis** \_\_\_\_\_

**Assessment findings**

\_\_\_\_\_  
\_\_\_\_\_

**Management**

\_\_\_\_\_  
\_\_\_\_\_

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**Diagnosis** \_\_\_\_\_

**Assessment findings**

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**Management**

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**Diagnosis** \_\_\_\_\_

**Assessment findings**

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**Management**

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**Diagnosis** \_\_\_\_\_

**Assessment findings**

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**Management**

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**Q21**

A 21 year old woman has been brought to the ED after an intentional overdose of paracetamol.

- 1. List 4 key factors of your history that will influence your toxicological risk assessment.**  
**(4 marks)**

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

- 2. List 3 potential indications for the administration of activated charcoal in this patient.**  
**(3 marks)**

- 1) \_\_\_\_\_  
\_\_\_\_\_  
2) \_\_\_\_\_  
\_\_\_\_\_  
3) \_\_\_\_\_  
\_\_\_\_\_

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The patient was admitted to your short stay unit overnight to receive an infusion of N-acetylcysteine as management for a high risk ingestion.

On your review the following morning, she is looking unwell.

**3. List 5 criteria that would warrant transfer to a service with liver transplant capabilities.**  
**(5 marks)**

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

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

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

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

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



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**Q22**

A 16 year old girl has presented with right ear pain.

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

**1. State 3 relevant findings in the clinical photograph. (3 marks)**

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

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

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

**2. Give your diagnosis. (1 mark)**

\_\_\_\_\_

**3. List 2 bacterial causes of this problem. (2 marks)**

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

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

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4. List 2 important complications of this condition. (2 marks)

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

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

5. State 3 components of your management of this patient. (3 marks)

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

**Q23**

A 2 month old boy has been brought to the ED with a fever of 24 hours duration.

- 1. List 4 examination features that would prompt you to perform a lumbar puncture. (4 marks)**

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

- 2. List 6 conditions that would need to be met for safe discharge of the child. (6 marks)**

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

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**Q24 (9 min)**

A 50 year old woman has been brought to the ED following a collapse at work. She had complained of a severe headache prior to her collapse.

A slice from the CT scan of her head is provided in the **PROPS BOOKLET**.

**1. List 5 abnormalities on the image provided. (5 marks)**

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

**2. Give the most likely diagnosis. (1 mark)**

\_\_\_\_\_

The patient has been intubated due to a reduced level of consciousness.

Her vital signs are:

Pulse	115	/min
BP	200/110	mmHg
O2 saturation	90%	FiO2 0.8

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A chest x-ray has been performed. It is provided in the **PROPS BOOKLET**.

3. State the pathology demonstrated. Give 3 supportive features from the chest x-ray. (4 marks)

Pathology

\_\_\_\_\_

Supportive features

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

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

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

4. State 4 components of your management of this patient. (4 marks)

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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5. List 4 other complications that might occur during this patient's admission. (4 marks)

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

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

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

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

**Q25**

A 3 year old girl has been brought to the ED with a plastic bead stuck in her left nostril.

- 1. List 3 complications that might occur if the foreign body is not removed in a timely fashion. (3 marks)**

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_

The child will not sit still for any attempts at removal.

- 2. List 3 options for controlling the patient to facilitate removal. (3 marks)**

- 1) \_\_\_\_\_  
\_\_\_\_\_
- 2) \_\_\_\_\_  
\_\_\_\_\_
- 3) \_\_\_\_\_  
\_\_\_\_\_

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The patient has been safely immobilised.

**3. State 5 different techniques for removing the foreign body in the ED. (5 marks)**

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_



**Q26**

A 28 year old woman has been taken to the ED after being found unconscious on the floor of her apartment. She was last seen 24 hours prior.

Some of her blood results are provided in the **PROPS BOOKLET**.

**1. State 4 conclusions from the blood results with explanation as to their cause. (4 marks)**

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

The patient's vital signs are:

GCS	8	E2 V2 M4
Pulse	100	/min
BP	130/70	mmHg
RR	20	/min
O2 saturation	99%	6L via Hudson mask
Temperature	37.0	degrees

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2. List 4 targeted components of your examination, including the relevance of each.

(4 marks)

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

3. State 5 components of your initial management of this patient. (5 marks)

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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**Q27 (9 min)**

A 2 year old boy has been brought to the ED after his mother noticed him refusing to bear weight on his right leg.

- 1. List 5 differential diagnoses. For each, state a key finding on history or examination that would provide supportive evidence. (10 marks)**

Diagnosis	Supportive history / examination findings

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2. List 4 investigations that you might perform to establish a diagnosis. Provide justification for each investigation. (8 marks)

Investigation	Justification