Candidate name:	
PAH 2016.1 trial SAQ paper	
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PART 3	
Questions 19 - 27	

1 hour

Candidate initials:	
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## SAQ 19 (double question)

A 26 year old woman presents with 3 days of lethargy and epigastric pain. She is 28 weeks pregnant.

Her vital signs are:

Temp	37.3	degrees
Heart Rate	110	beats per minute
Blood Pressure	140/90	mmHg
RR	26	breaths per minute
O <sub>2</sub> Saturations	95%	room air

Her blood results demonstrate anaemia with thrombocytopaenia and elevated tranaminases and bilirubin. You suspect that she may have HELLP Syndrome.

	Candidate initials:	
1.	List three important differential diagnoses for her presentation.	(3 marks)
2.	In addition to the findings provided, list six examination or investigative would support a diagnosis of HELLP syndrome or pre-eclampsia.	ve findings that (6 marks)
(1)		
(2)		
(4)		
(5)		
(6)		

3.	. List five <b>life-threatening complications of pre-eclampsia</b> and HELLP synd	rome. (5 marks)
(1)		
(2)		
(3)		
(4)		
Whils	st being assessed, the patient suffers a generalised tonic-clonic seizure	
4.	. Describe your specific management of her seizure. Provide doses of any used and state your clinical end-points	therapies (4 marks)

The se	eizure is terminated effectively. The patient's blood pressure is now 180/11	.0.
5.	Describe your key management priorities for this patient. Be specific with therapies administered.	any (8 marks)

<b>Candidate initials:</b>	

## **SAQ 20**

A 40 year old woman presents to ED complaining of weakness and difficulty walking. On initial assessment she is found to have loss of power in both legs, but normal upper limb and cranial nerve function.

1. List 3 key differential diagnoses you would consider for her presentation. For each differential, provide supportive historical and/or examination features. (9 marks)

Differential diagnosis	Supportive Historical and Examination Features

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You decide to perform a lumbar puncture as part of your workup.	
2. Outline the <b>key aspects of consent</b> as they apply in this situation.	(3 marks)

<b>Candidate initials:</b>	

## **SAQ 21**

Your registrar has called you to resus to help with a patient. An 18 year old male presented in diabetic ketoacidosis, complicated by a prolonged generalised seizure. He has been intubated for airway protection and is currently being sedated and mechanically ventilated, awaiting ICU review. His weight is 80kg.

A blood gas is provided in the **PROP BOOKLET**.

 Complete the following table for calculations that can be made from the above blood gas. (10 marks)

Variable	Formula Used	Result	Clinical Implication in this case
Expected CO <sub>2</sub>			
A-a gradient			
Anion Gap			
Delta Ratio			
Corrected Sodium			

Your r	egistrar asks fo	or guida	nce to address his respiratory status.
Currei	ntly the ventila	tor is se	et as follows:
	Mode	SIMV-	VC
	FiO <sub>2</sub>	1.0	
	TV	400	mls
	Resp Rate	12	breaths/min
	PEEP	5	cm H <sub>2</sub> O
	PSupp	5	cm H <sub>2</sub> O
	otice the patier gh pressure ala		king some spontaneous respiratory efforts which are triggering
2.	Give your stra	ategy <b>fo</b>	or improving this patient's ventilation, stating your desired end- (5 marks)

arge scale air evacuation. Your hospital is set to be one of several who will accept arrivals rom this flight. The flight is scheduled to arrive in the next few hours.
<ol> <li>List and justify the different stakeholders you would engage in your strategy for managing the possible surge of EVD patients.</li> </ol>
(5 marks)

You are notified by the public health unit of an impending aircraft arrival from West Africa. A suspected outbreak of Ebola Virus Disease (EVD) amongst health care workers has led to a

**SAQ 22** 

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2.	Emergency Department.
	(4 marks)
	·
	re told that the plane has landed and 10 patients are en route to your hospital. Your tment is currently full with many patients awaiting admission or ward bed allocation.
3.	List four strategies you might use to prepare your department for these arrivals.
	(4 marks)
(1)	
(2)	
(3)	
(3)	
(4)	

	rear old man presents with rapid palpitations for 30 mins. He feels lightheaded but s any chest pain. ECG demonstrates a wide-complex tachycardia.
1.	List six ECG findings that would support a diagnosis of Ventricular Tachycardia (VT) (6 marks)
(1)	
	List four features you would seek on <b>history</b> that would support a diagnosis of VT (4 marks)
(1)	
(2)	
(3)	
(4)	

**SAQ 23** 

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

You di	agnose Ventricular Tachycardia and elect to cardiovert the patient electrically.	
3.	State four key steps you would undertake in electrically cardioverting this patient in ED. Be specific with any therapies used. (4 marks	
[1]		
(4)		

Candidate initials:	
SAQ 24	
An 18 year old girl is brought to ED after a collapse. She has a history of anor	exia nervosa.
Her ECG is provided in the <b>PROPS BOOKLET</b> .	
1. What is the <b>most important</b> abnormality shown on her ECG?	(1 mark)
2. List one other associated abnormalities present on her ECG	(1 mark)

	nale for each investigation.	(8 marks)
nvestigation	Rationale	
You explain to the	e patient that she will need to be admitte	ed for further treatment and to
	g disorder. She tells you she is going to d h you to keep her in hospital "for her own	
	nditions would need to be present for yo ther expressed wishes?	u to be able to <b>detain and treat</b>
ner agams	ther expressed wishes:	(4 marks)
(4)		, ,
.1)		
2)		

SAQ 25		
	velopmental milestones is brought in by alking on his right leg for the last 24 hour	
On initial examination, the child right leg.	appears unsettled and will not walk or b	pear weight on his
You are worried the child may h	ave septic arthritis of the hip joint.	
1. List five important altern	nate differential diagnoses.	(5 marks)
<del>-</del>	nat may aid in confirming or excluding se entation. Provide rationale for each inve	
Investigation	Rationale	

but ap	pears well and comfortable.	
3.	List five criteria that need to be met to safely discharge this child.	(5 marks)
(1)		
(2)		
(4)		

Your assessment indicates that septic arthritis is unlikely. The child is still not weight bearing

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SAQ 2	SAQ 26				
sweaty	•	pain radiating through to his b has a background of hypertens			
You ar	e considering a diagnosis of a	thoracic aortic dissection.			
1.	List three specific examination aortic dissection	on findings that would suppor	t a diagnosis of thoracic (3 marks)		
(2)					
(3)					
2.	For each of the following inv	vestigative modalities, indicate	e advantages and		
_	disadvantages <b>specific</b> to the	oracic aortic dissection.	(8 marks)		
	INVESTIGATIVE MODALITY	ADVANTAGE(S)	DISADVANTAGE(S)		

INVESTIGATIVE MODALITY	ADVANTAGE(S)	DISADVANTAGE(S)
CT Aortogram		
Trans Thoracic		
Echocardiogram		

The patient's blood pressure is 180/120 and pulse rate is 100/min (regular).	
3. Detail your emergency department management of the patient's haemod state. State your end points.	dynamic (6 marks)

park,	hitti	ng their head.
(1)		List five accepted clinical indications for CT Brain imaging for this child.(5 marks)

Your registrar has come to see you for help with a patient. They are seeing a 2 year old boy, who was brought to ED by their parent after they fell off the playground equipment at the

**SAQ 27** 

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The child appears well and interactive, with a forehead abrasion but no other injuries. Youre told the child had one vomit after the fall, but is now tolerating fluids without intervention.	ou
Despite your registrar's reassurances, the child's parent is demanding a CT scan.	
2. Outline the key components of your response to this parent. (5 mar	ks)