Candidate name:	
PAH 2017.1 trial SAQ paper	
PART 2	
Questions 10 - 18	

1 hour

Q10 (12 min)				
A 4 year old boy has been brought to your ED with a 2 day history of increasing vomiting and lethargy.				
He has had a <u>venous</u> blood gas taken. The res	ult is provided in the PROPS BOOKLET .			
 Give the 2 most relevant findings regarders provide the formula you have used. 	arding the patient's acid-base status. For each, (4 marks)			
Conclusion	Formula			

	Candidate initials:		
2. State the underlying	(1 mark)		
3. Give a brief explana	tion for each of the following abnormalities.	(3 marks)	
Abnormality	Explanation		
Low Sodium			
High Potassium			
Low Chloride			

Candidate initials:	

4.	List 5 other investigations you might perform on this child	, providing the clinical indication
	for each.	(10 marks)

Investigation	Clinical indication

		Candidate initials:	
The patient has the foll	owing vital signs:		
GCS	15		
Pulse	180	/min	
ВР	80/40	mmHg	
RR	35	/min	
O2 saturation	99%	room air	
Temperature	36.5	degrees	
The patient appears po	orly perfused.		
5. State 4 specific	elements of your fluid	and electrolyte therapy.	(4 marks)
1)			
2)			
3)			
4)			
6. State 2 other c	omponents of your man	agement of this patient.	(2 marks)
1)			
2)			

Q11	
A 42 year old woman has present	ted to the ED with heavy vaginal bleeding.
Her serum beta-HCG is negative.	
1. List 5 differential diagno	ses for the bleeding. For each, list one feature of your clinical
assessment that would s	
Diagnosis	Assessment feature

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After complete assessment, no obvious cause has been found.	
The patient's vital signs are normal.	
2. List 3 different pharmacological options for management of this problem.	(3 marks)

Candidate initials:	
Q12	
A 26 year old man has been brought to the ED after falling from a horse.	
A CT scan has been performed. One image is provided in the PROPS BOOKLET .	
1. List 3 radiological features of the major injury demonstrated on this image.	(3 marks)
1)	
2)	
3)	

anagement option	Indication	
3. List 4 complications of t	nis injury.	(4 mark

2. List 3 options for management of this injury. For each option, state the indication for its

use.

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(6 marks)

Q13				
A 25 year old woman h	as presented to the ED v	vith a 3 day history of jaw pain and swell	ling.	
A clinical photo is provi	ded in the PROPS BOOK	LET.		
1. State the most	likely diagnosis.		(1 mark)	
2. List 2 supportir	ng features from the ima	age provided.	(2 marks)	
On arrival, the patient I	has the following vital sig	gns:		
GCS	15			
Pulse	120	/min		
ВР	130/75	mmHg		
O2 saturation	99%	room air		
Temperature	38.5	degrees		

Candidate initials:	
3. State 3 key components of your management.	(3 marks)
1)	
2)	
3)	
After some time in the ED, the patient has developed stridor and has become cyanotic. ventilate and intubate the patient have been unsuccessful.	Attempts to
The patient is sedated and paralysed.	
You have decided to perform a cricothyroidotomy.	

	Candidate initials:				
4.	List 6 key steps in performing a cricothyroidotomy via Seldinger technique.	(6 marks)			
1)					

You are managing a patient who has been brought to the ED after a large overdose of m drugs.	ultiple
You are concerned that the patient might have serotonin toxicity.	
1. List 8 drugs known to cause serotonin toxicity. Each drug must be from a sepa	rate class. (8marks)
2. List 8 clinical features associated with serotonin toxicity.	(8 marks)

Q14

Candidate initials: _____

Candidate initials:			
Q15			
A 3 year old boy has been brought to the ED after falling from the top bunk bed at home. He sustained a brief loss of consciousness after the fall.			
His mother is worried about a potential brain injury and is questioning the need for a CT scan.			
 Give the name of a decision instrument for performing CT in head injury which ha 	s been		
validated in the paediatric population. (1	mark)		
2. List 6 indications for CT head as per the instrument you have named above. (6	marks)		

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ou feel that CT imaging is indicated.	
3. State 4 key components of your preparation for safely performing the CT scan. (4 m	arks)
.)	
2)	
3)	
L)	

Candidate initials:	
Q16	
A 20 year old man has presented to the ED after falling on to his	left hand while playing basketball.
His x-rays are provided in the PROPS BOOKLET .	
1. List 2 abnormalities on the x-rays.	(2 marks)
,	(=)
2. List 4 steps in your management of this patient.	(4 marks)
3. List 2 early complications of this injury.	(2 marks)

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4. List 5 late complications of this injury.	(5 marks)		
4. List 3 late complications of this injury.	(5 marks)		

Candidate initials:	

Q17

A 25 year old woman has presented to the ED with pleuritic chest pain.

You are considering the diagnosis of pulmonary embolism.

 List and justify 6 investigations you could perform to assist in your diagnosis or management of this patient. (12 marks)

Investigation	Justification

Q18					
-	· ·		a 2 unit packed red blo s. His vital signs are nor	ood cell transfusion in you mal.	r ED. He has
1.	List 4 acute implemental to the limit is a cut of the limit is a c	munological con	nplications of the trans	fusion that might occur in	n the first 24 (4 marks)
2.	List 3 acute not first 24 hours.	n-immunologica	I complications of the t	transfusion that might oc	cur in the (3 marks)
	the nurses has i	nformed you tha	at the patient has becor	me unwell shortly after the	e transfusion
His vita	l signs are:				
GCS		15			
Tempe	rature	39.5	degrees		
HR		120	/min		
ВР		100/65	mmHg		

Candidate initials:	Candidate initials:		
3. List 3 actions you would take in this situation.	(3 marks)		
4. List 3 possible complications of recurrent red blood cell transfusions.	(3 marks)		