The Prince Charles Hospital
The Royal Brisbane & Women Hospital
Redcliffe Hospital

Caboolture Hospital

Facility/hospital/clinical service name

Metro North Hospitals ACEM Fellowship Trial Examination

2017.2

Short Answer Questions

SAQ Paper

Questions

Booklet three



ACEM Fellowship Trial Examination

2017.2

Short Answer Questions

SAQ Paper

Booklet three

Examination time: 180 Minutes

Direction to Candidates:

- 1- All questions must be attempted
- 2-Answer each question in the space provided
- 3-Enter your name for each question
- 4-This paper has been divided into 3 parts, each part is to be completed in 60 minutes

Booklet one: SAQ 1-9

Booklet two: SAQ 10-18

Booklet three: SAQ 19-27

Props Booklet: All props

SAQ 19: (9 Minutes)

Candidate Name:

Total 18 Marks

A 77 year old male presents with lower back pain after a recent minor trip. He has a normal lower limb neurological examination, and no focal spinal tenderness. He is noted to have bruising on his buttocks, and routine biochemical examination is taken and is as follows:

Hb 60
WCC 0.4
Plt 6
MCV 81
HCT 0.17
Neutrophils 0.18

	Troub of		<u>- </u>	
I.	Describe the relevant features of th	ese blo	od tests:	(1 Mark)
II.	List three central and three peripho an underlying diagnosis.	eral cau	ses which must be	considered as (3 Marks)
	Cau	ses:		
	Central (0.5 each)		Peripheral (0.5	5 each)
	convan (ole cuva)			
III.	He will require transfusion of blood which may be used (carefully) with	-		-
				(4 Marks)

IV. He is transfused 2 units and becomes acutely hypoxic, and dyspnoeic.

Please complete the following table with respect to transfusion reactions: $(10 \, \text{Marks})$

Type of reaction (1 mark each)	Incidence (0.5 mark each)	Two (2)Discriminating features on examination or investigation (0.5 Mark each)

SAQ 20: (6 Minutes) (12 Marks)

Candidate Name:

A 28 year old male patient is brought to your ED following an injury in a tackle during a rugby match. There is concern for a C spine injury as he been unable to move his upper or lower limbs after the injury.

On arrival he is being managed in appropriate spinal immobilisation.

His vitals signs are:

GCS 15/15 Temp 36.0

HR 60 regular BP 90/60 SpO2 93% RA

Questions:

I. Complete the following table with 4 indications for intubation that may occur
in a patient with a spinal injury and state the supporting features you would
look for on assessment. (8 Marks)

Indication for intubation	Supporting Features on Assessment

were to proceed with intubation in the ED?	(4 marks)	

SAQ 21: (6 Minutes)

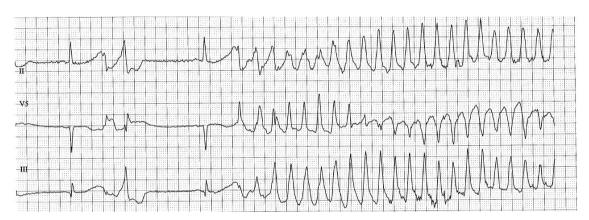
Candidate Name:

(Total Marks 12)

A 50 year-old woman is in your ED with epigastric pain and vomiting. She has a background of hypertension and GORD. You are reviewing her on the ward round as an ECG is being performed.

She states that she feels a bit light headed.

The following ECG is recorded: (See prop booklet for her ECG please)



I.	List three (3) relevant abnormalities on her ECG.	(3 marks)
II.	State 3 possible causes for this clinical presentation.	(3 marks)
I		

III. The patient's BP is 100/60 mmHg. List three (3) potential treatment, including doses and endpoints where relevant.

(6 marks)

Drug and dose	End point

SAQ 22: (6 Minutes) (Total Marks 12) **Candidate Name:**

A 32 year old male is brought to your ED by the ambulance in refractory VF. He has a down time of approximately 35minutes and has received advanced life support in accordance with published guidelines.

His partner states he self discharged yesterday after being diagnosed with myocarditis.

I. The Australian and New Zealand Committee on Resuscitation recommend the use of prospectively validated termination of resuscitation (TOR) rules for out of hospital cardia arrests (OHCA).

List 4 criteria used by a prospectively validated TOR rule in the setting of OHCA receiving advanced life support:		
10001	· ing autunoou in o supporti	(4 marks)
II.	List two (2) pros and two (2) cons with respect to the use of mech devices in OHCA	nanical CPR (4 marks)

III.	Which Extra Corporeal Membrane Oxygenation (ECMO) modality most appropriate for this patient and why?	y would be (2 marks)
IV.	List two (2) contraindications to commencement of ECMO.	
		(2 marks)

SAQ 23: (6 Minutes) (Total marks 12)

Candidate Name:

A 32 year old female self presents to your emergency department following a fall down 6 stairs at work.

She is 28/40 G1P0.

She has no complaints of pain but wants to be 'checked out'

Sile ii	las no complaints of pain but wants to be thecked but.
I.	What are four of the major cardiovascular physiological changes in pregnancy that may impact on the clinical assessment of this patient? (4 Marks)
II.	On assessment, her primary and secondary survey is normal. List one (1) specific examination and three (3) investigations related to the pregnancy that need to be performed for this patient?
	(4 Marks)
Exam	nination:
Inves 1:	stigations:
2	
3	

11.	what four criteria need to be met for safe discharge of this patien	(4 Marks)

SAQ 24: (6 minutes) Total Marks 12

Candidate Name:

A 60 year old man is brought by ambulance to your tertiary ED following a 'one punch' attack, where he was punched and fell, hitting his head. There was a brief (<5 minutes) loss of consciousness.

He has no prior medical history and is on no medications.

On arrival his vital signs are:

GCS 14/15 (E3, V5, M6)

Pupils equal and reactive

P 85 BP 125/85 RR 18

O2 sats 98% room air

He has no injuries other than bruising and a large haematoma to the right parietal region of his head. He has a collar in place.

I.	A single slice from a CT of his head is shown in the props booklet. List four (4) key findings?		
		(4 Marks)	

On return from CT he is poorly responsive. His GCS is now 7 (E1 V2 M4). His other vital signs do not change. He has an endotracheal tube placed for airway protection and commenced on ventilation without incident. The neurosurgical service is called to attend.

II.	List six (6) priorities in his care while waiting for neurosurgery,	(6 Marks)

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	oted to be different sizes left 3mm, aal interventions that you will perf	_
		(2 Marks)

SAQ 25 (6 minutes) (Total marks 12)

Candidate name:

You are the ED Consultant on the day shift at a district general hospital.

A 61 year old man presents with an injury after a fall while pushing his grandchildren down a slide.

After the primary and secondary survey, you determine that his only injury of significance is to his left shoulder.

You order x-rays of this joint.



I.	List two (2) relevant positives and two (2) relevant negative find above x-ray views.	lings on the (4 Marks)
	Positive:	
	Namakina	
	Negative:	
II.	He has received Methoxyflurane from the ambulance officers, but considerable pain.	ıt is still in
II.	-	it is still in (4 Marks)
II.	considerable pain.	
II.	considerable pain.	
II.	considerable pain.	

III. Having seen the X-rays, you determine the need for reduction. Na		Name and
	briefly describe two techniques for reduction.	(4 Marks)

SAQ 26 (6 Minutes) (Total Marks 12)

Candidate name:

A 22 year old HIV negative male presents to an urban district emergency department with a history of unprotected anal intercourse with an anonymous male partner the previous night. He is asymptomatic and requesting post-exposure prophylaxis (PEP).

I.	List (4) other factors on assessment that are important in determining his
	risk of contracting HIV in this setting? (4marks)
	(Timar Kay
II.	List (6) important principles of discharge advice that you will provide to the
	patient. (6 Marks)

111.	will determine if this is required?	tment in this setting and what (2 Marks)

SAQ 27: (9	Minutes)	Candidate name:
(18 marks)	
	baby girl is brought into the emergency depart 24 hrs and has had increasing lethargy. The bases 3.8kg.	
Initial vital	signs are:	
HR RR Cap refill BP Sats	190 60 5secs Unable to record Not reading	
I. List	eight (8) differential diagnoses for this pre	esentation (8 Marks)

List four (4) immediate actions you would take

II.

(4 Marks)

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III. You decide to in	tubate the baby.	(6 Marks)
List six (6) wis see of or	unium out (in aludiug signs unultiul s	signs do not sount as
	uipment (including sizes -multiple s t you would prepare for the intubati	
50pur 400 45	oyou would propule for the included	V V VV

Good luck Oh forgot, still you have SCQ in the afternoon ☺