ID NUMBER:					

University Hospital, Geelong Emergency Medicine Trial Fellowship Exam Short Answer Questions (SAQ)

Week 22

DIRECTIONS TO CANDIDATE

- 1. Answer each question in the space provided in this question paper.
- 2. Do not write your name on this question paper.
- 3. Enter your examination number in the space below.
- 4. Cross out any errors completely.
- 5. Do not begin the exam until instructed to do so.
- 6. Do not take examination paper or materials from this room.
- 7. The booklet binder may be removed during the exam.

QUESTION & ANSWER BOOKLET

Question 1 (18 marks)

A 10 month old boy is brought to the Emergency Department by his mother via his GP. The child has been unwell for 48 hours with a fever. The GP has not been able to identify a source of fever.

		•
source of fever.		
On examination you note:		
	Grizzly child	

HR 135 bpm RR 22 per min Temperature 38.9 °C No obvious focus of infection.

A nurse has collected a bag urine specimen for this patient.

	a.	State three (3) cons for the use of a bag urine specimen in this patient. (3 marks)
1.		
2.		
3.		
	b.	State three (3) ways in which a white cell count result might influence your management in this case. (3 marks)
1.		
2.		

Question 1 (continued)

c.	State three (3) pros and three (3) cons for the role of blood cultures in this child. (6 marks)
Pros:	
1	
2	
2	
3	
Cons:	
1	
2	
2	
2	

Question 1 (continued)

Following your complete assessment, the child remains with no focus of infection identified.

	d.	List six (6) criteria that must be met for you to safely discharge this child. (6 marks)
1.		
2.		
3.		
4.		
4.		
5.		
6.		

Question 2 (10 marks)

A 25 year old male presents to your emergency department following a motor car accident. His GCS is 15. After examination he appears to have isolated injuries to his head.

An X-ray	, is taken-	refer to	the prop	booklet	page 2.
----------	-------------	----------	----------	---------	---------

	a.	State four (4) abnormal findings shown in this xray. (4 marks)
1.		
_		
2.		
3.		
4.		
	b.	List two (2) indications for lateral canthotomy for this patient. (2 marks)
1.		
2		

Question 2 (continued)

C.	Define the following terms:	(6 marks)
Le For	t type 1:	
Le For	t type 2:	
Le For	te type 3:	

Question 3 (12 marks)

You have been asked to set up a local research trial investigating the role of the effect of cooling as a neuro-protective strategy in post VF patients in the ED.

a. List six (6) key factors in the scientific design of this study. (6 marks)

The aim of your study is to assess the neuro-protective effects of cooling via rapid IV infusion of 2L of cold Hartmans on post-VF patients in the ED.

1.	 	
2.	 	
3.	 	
4.	 	
_		
J.		
6		

Question 3 (continued)

	b.	List six (6) key steps required to implement this study in your department. (6 marks)
1.		
2.		
3.		
4.		
_		
5.		
6		

Question 4 (10 marks)

A 75 year old lady presents to your emergency department with headache and blurriness of vision.

2 photos are taken with th	e patient requested to	look straight ahead-	refer to
the prop booklet page 3.			

	a.	State one (1) abnormality shown in photo 1. (1 mark)
1.		
	b.	State two (2) abnormalities shown in photo 2. (2 marks)
1.		
2		

Question 4 (continued)

	c. List seven (/) likely underlying causes for this condition. (/ marks)
l.	
2.	
3.	
l .	
.	
5 .	
,	

Question 5 (11 marks)

A previously well, 74 year old woman presents to your emergency department with chest pain for 2 hours.

An ECG taken on arrival-refer to the prop booklet page 4.

2)

Question 5 (continued)

	C.	List five (5) features that would suggest successful treatment of this condition in the first 4 hours. (5 marks)
1.		
_		
2.		
3.		
4.		
5		

Question 6 (18 marks)

You are the Consultant in an urban Emergency Department. You receive ambulance prenotification about a domestic dispute. Ambulance are transporting a patient with shotgun wounds to chest and abdomen. ETA is 10 minutes.

A resuscitation bay has been identified as suitable to receive the patient.

A senior doctor will take control of the rest of the department.

a	. State four (4) key steps to be performed prior to patient arrival. (4 marks)
1	
2	
3	
4.	

Question 6 (continued)

	b.	What three (3) circumstances must be met for a thoracic gun shot to be managed with ICC alone (ie not require formal surgical intervention)? (3 marks)
1.		
2.		
3.		
	C.	What is the significance of a missile fragment appearing blurred on a Chest Xray? (1 mark)
	d.	What is the role of CT tractogram? State one (1) point in your answer. (1 mark)
	e.	Under what circumstance should abdominal gunshot wounds proceed to laparotomy? State one (1) circumstance in your answer. (1 mark)

Question 6 (continued)

f. What is the mechanism of death from a high velocity bullet striking the chemark)				
List seven (7) principles of forensic evidence collection for this patient. (7 marks)				

Question 7 (12 marks)

ΒP

Her observations are:

1.

2.

3.

You are asked to review a 24 year old woman who presented 5 days post part partum with per-vaginal bleeding. Her initial Hb was 65 and her initial vital signs were within normal limits. She is receiving her first unit of packed red blood cells.

mmHg

60/40

	HR	120 (thready)	/ min	
	RR	40	/ min	
	Temp.	40°C		
Your clinical exam	nination has e	excluded ongoing v	aginal bleeding.	
a. List four (4	l) differential	diagnoses for her	clinical state. (4 mark	s)

Question 7 (continued)

	b.	List eight (8) key actions that you would take in the next 30 minutes. (8 marks)
1.		
۷.		
3.		
4.		
5.		
6.		
7.		
_		
()		

Question 8 (12 marks)

A 65 year old man presents with abdominal pain and vomiting for 24 hours. He is known to have chronic excessive alcohol excess.

Several pathology tests are taken- refer to the prop booklet page 5.

Ob	serv	vations on ar		_	
			BP	110/50	mmHg
			HR	120	/min (regular)
			RR	26	/min
			SaO2	95	% on air
			Temp	37	deg C
			GCS	15	
	a.	State a unify	ying diagnosis fo	or this natient <i>(</i>	1 mark)
	u.	State a army	THE GIGETTOSIS TO	or this patient.	I marky
	b.	List six (6) fi	ndings in these i	investigations t	hat support this diagnosis. (6 marks)
1.					
2.					
3.					
э.		 			
_					
4.					
5.					
6.					

Question 8 (Continued)

	C.	minutes of your care. (5 marks)
1.		
2.		
3.		
4.		
5		

Question 9 (12 marks)

A 25 year old woman presents following a deliberate quetiapine overdose.

a. Complete the table below to demonstrate your dose related risk assessment. (4 marks)

Dose range (1 mark)	Clinical effects (3 marks)
	1.
	1.
	2.

D.	significance of this change (2 marks)?	
EC	G change:	
Sig	nificance:	

Question 9 (continued)

c. Complete the table below by stating the role of decontamination and elimination in this poisoning. (2 marks)

Management task	Role						
	(2 marks)						
Decontamination							
(1 mark)							
Enhanced elimination							
(1 mark)							
 d. List four (4) specific circumstances that must be met to safely discharge a patient from the Emergency department following a rapid release Quetiapine overdose. (4 marks) 1. 2. 3. 							

University Hospital, Geelong Fellowship Exam Short Answer	Questions
Week 22	

ID NUMBER:					

University Hospital, Geelong Emergency Medicine Trial Fellowship Exam Short Answer Questions (SAQ)

Week 22

PROP BOOKLET

Question 2



Question 3

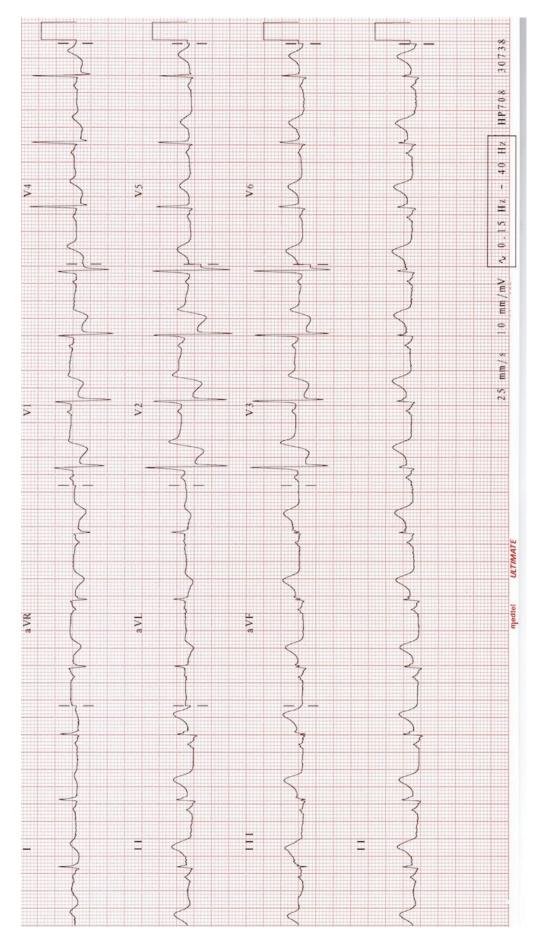
Photo 1



Photo 2



Question 5



Question 8

			Refe	rence range
Na ⁺	135	mmol/l		134-146
K^{+}	4.0	mmol/l		3.4- 5.0
Cl ⁻	85	mmol/l		98- 106
Bicarbonate	12	mmol/l		22- 28
Urea	12.5	mmol/l		2.5- 6.4
Creatinine	0.05	mmol/l		0.05- 0.1
Glucose	6.8	mmol/l		
Lactate	2.0			
Total bilirubin	15	μmol/ L		0- 20
Protein	64	g/L		60-80
Albumin	31	g/L		33-47
Alk phosphatase	85	U/L		30- 100
LDH	210	U/L		120- 250
γGT	250	U/L		0-50
AST	90	U/L		0-35
ALT	50	U/L		0-40
FWT	Keto	ones ++		(others normal)