

UNIVERSITY OF CAPE TOWN
STELLENBOSCH UNIVERSITY

MMed Emergency Medicine
Final examination

MPhil Emergency Medicine
Written examination

23 August 2007

Clinical short answer paper 2

1300 - 1600

This paper consists of **FIFTEEN** short answer questions. All questions are to be answered. Each question is worth 10 marks.

Answer questions in the following books:

Question	Book
1-2	1
3-4	2
5-6	3
7-9	4
10-12	5
13-15	6

If you need to continue an answer in an extra book, do not mix answers in one book other than as detailed above.

1. A 3 year old boy is brought into the Emergency Department by his mother. She is concerned that his left nostril is excoriated and has a foul discharge issuing from it.

What is the most likely diagnosis? Discuss the management of this patient.

2. A 40 year old HIV positive woman has been on first line ARVs for 18 months. Her last CD4 count was 550 and she had been gaining weight and was working full-time.

She presents with nausea and vague abdominal pain, but no diarrhoea. Her respiratory rate is 35, and ABG show: pH 7.1, pCO₂ 2.3kPa, pO₂ 13kPa.

What is the differential and most likely diagnosis and how would you confirm and treat this condition?

3. Describe the signs and symptoms of acute crystal methamphetamine intoxication.

4. Describe the clinical presentation and management of the bite of *Latrodectus indistinctus*, the Black Button spider

5. You are caring for a patient who is ventilated following chest trauma with spinal injury. He needs to undergo a transfer to a tertiary centre, 5 hours flight away.

The flight will be in an un-pressurised aircraft. List the pitfalls and anticipated complications of this transfer.

6. Discuss the effects of prolonged flight in a light aircraft (fixed-wing or helicopter) on aero-medical crew.

7. Describe the features (diagnoses and arterial blood gas) which will influence your decision to Non Invasive Ventilation in an awake patient with respiratory failure not responding to O₂ and medical therapy. What will influence your choice of CPAP or biPAP?

8. Describe your immediate assessment and stabilisation of a breathing, haemodynamically stable but comatose patient.

9. Discuss the emergency management of a patient with an acute onset of Bradycardia.

10. A 26 year old male comes to the Emergency Department: he has been SCUBA diving on successive days over a week to depths of up to 50 metres.

He complains of paraesthesia in the calves, pain around his chest at the level of T8 and being generally unsteady.

What is his diagnosis? Describe the immediate and consequent treatment.

11. Discuss forced air rewarming as a pre-hospital intervention for Hypothermia.

12. You are responding by NSRI rescue boat to a fisherman with chest pain 10 nautical miles off the coast. List the equipment you would take.

13. List the currently notifiable infectious diseases in South Africa.

14. Write short notes on injury of the thumb ulnar collateral ligament.

15. Write short notes on Kawasaki disease.