

UNIVERSITY OF CAPE TOWN
STELLENBOSCH UNIVERSITY
Faculty of Health Sciences

MMed Emergency Medicine
Final examination

MPhil Emergency Medicine
Written examination

25 March 2009

Management long answer paper

1300 - 1600

**NO CALCULATORS AND/OR
ELECTRONIC EQUIPMENT/AID WILL BE ALLOWED**

This paper consists of **FOUR** long answer questions. All questions are to be answered. Each question is worth 100 marks.

Answer each question in a separate answer book.

1.
 - a. What is evidence based medicine? What obstacles exist to implementing evidence based care in the South African emergency centre environment, and how may these be overcome?
48
 - b. Define:
 - a. Sensitivity
 - b. Specificity
 - c. Confidence intervals12
 - c. Discuss the potential causes of bias in a published article. Choose one type of bias and discuss how it may be reduced by appropriate study design.
40
2. A meeting with the orthopaedic team decides that, in future, they'll only assist the emergency centre with complicated fracture/ joint dislocation manipulation. You decide to produce a care pathway (guideline) to guide staff in the management of patients presenting with fracture/ joint dislocation to the EC.

Describe how you would design, implement and monitor the effectiveness of your pathway. You can make use of diagrams / flowcharts / algorithms to supplement your answer.
3. You are called to the Emergency Centre as the consultant on call for a shooting incident in the department.
 - a. When you arrive you are met by tearful staff. The police are already on scene. Describe how you will manage the incident at the scene and in the immediate few days that follow
60
 - b. A patient died in the shooting. Whilst busy on scene the local press office phones and asks for a statement about the situation. What statement will you make?
20
 - c. After a few weeks everything has returned to normal. The press office contacts you again to make a statement about the safety of patients at the department. What statement will you make?
20
4. In 2010 South Africa will be hosting the FIFA Soccer World Cup. Stadia will host matches, and Public Viewing Areas will be open for the public. Discuss your risk analysis for such a mass gathering, with the aim of determining the necessary medical coverage. Include details of:
 - Risk analysis of the venues
 - Medical coverage in and around the stadium
 - Actions in hospitals