



HONG KONG COLLEGE OF ANAESTHESIOLOGISTS

DIPLOMA OF FELLOWSHIP

FINAL FELLOWSHIP (INTENSIVE CARE)

LONG ANSWER PAPER

2 Questions

MONDAY, 16th AUGUST 2010

1:00 pm - 3:00 pm

NOTICE

- (A) Write your answers to the two questions in separate books.
- (B) Read the questions carefully, and in view of the time available, balance your answers to encompass points of great importance without going into needless detail.
- (C) Record your number on the cover of each book and hand in all books.

Question 1

A 43 year old man is admitted to your ICU following neurosurgery for severe brain trauma from a road accident. After initial stabilization he appears to deteriorate.

- (a) What clinical features would lead you to consider a diagnosis of brain death? (10% marks)
- (b) How do you diagnose brain death in your ICU? (40% marks)
- (c) The patient has an organ donation card, and his family also agree to organ donation. Prior to organ donation, what problems might this patient have and how would you provide ICU support? (30% marks)
- (d) With regard to other patients who might present with a clinical picture suggestive of an extremely poor prognosis, what are the issues to consider with regard to the concept of 'interventional ventilation', ie the process of selecting patients who would previously have been allowed to die in suitable location without aggressive therapy, then transferring them to the ICU for non-therapeutic ventilation with the sole intent of harvesting organs after brain death has been diagnosed. (20% marks)

Question 2

A 63 year old woman with a history of crab bite to her foot is admitted to the intensive care following extensive debridement of her right foot for necrotizing fasciitis. She has a blood pressure of 85/40, PR of 145 in atrial fibrillation, is in acute renal failure with BE -20 and has mottling of her skin.

- (a) How would you manage her initial resuscitation? List in order of priority. (30% marks)
- (b) Give your antibiotic choice and reasons for this choice? (20% marks)
- (c) Following an initial 36 hour period of improvement, she deteriorates with increasing inotropic support required. How would you manage this situation? (30% marks)
- (d) List poor prognostic factors for survival from necrotizing fasciitis. (10% marks)
- (e) What infectious precautions need to be undertaken and why? (5% marks)
- (f) The family would like to the patient to undergo hyperbaric oxygen therapy. What would you discuss with them with regard to this request? (5% marks)

End of paper