



# The Hong Kong College of Anaesthesiologists

## Final Fellowship Examination

### Paper I

15<sup>th</sup> March 2002 (Friday)

09:00 - 10:30 hrs

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#### Instructions:

- For each clinical scenario there are three related short questions.
- There are three pre-labelled answer books. Please make sure you answer the respective scenario in the appropriate answer book.
- Write your examination number on the cover of each answer book.
- Answer All questions (nine questions). They worth equal marks and you should spend approximately ten minutes for each short question.

#### Scenario A

An 80 year old woman, who lives alone, has been admitted following 5 days of vomiting and epigastric pain. She has had two similar episodes in the last year. After investigation she is listed for laparoscopic repair of a paraoesophageal hiatus hernia.

- Outline your preoperative assessment and preparation of this patient.  
What is the optimal time for surgery?
- Describe and justify your anaesthetic technique for the operation?
- During the operation, there is a sudden fall in blood pressure and oxygen saturation and the surgeon reports that the blood is dark in colour.  
Describe how you would identify and treat the cause of this incident?

#### Scenario B

A 3 year old girl sustained 50% third degree burns (trunk, both hands, and one leg) in a house fire and was brought to the A&E department where a Ringer Lactate solution was commenced via a 22g intravenous cannula. The burns specialist would like to perform a debridement as soon as possible and requests your help with this child's preoperative resuscitation.

(weight 15 kg, BP 80/40 mmHg, pulse 130/min, resp rate 35/min, Hb 11gm%)

- Briefly discuss the physiological changes that occur during the first 48 hours after 50% third degree burns.
- Outline the management that you can contribute to the pre-operative care of this patient.
- Discuss the potential problems associated with anaesthesia in this child.

#### Scenario C

An 80 year old man with history of type II diabetes and old CVA is scheduled for transurethral resection of the prostate (TURP).

7. Outline the potential complications of TURP during the intra-operative and immediate post-operative period.
8. What anaesthetic technique would you use to manage this case? Justify your choice.
9. One hour intra-operatively the serum sodium is measured as 105mmol/l. Discuss your management.