



The Hong Kong College of Anaesthesiologists

Final Fellowship Examination

Paper I

15th August 2014 (Friday)

09:00 – 10:30 hrs

Instructions:

- a. There are three pre-labelled answer books. Please make sure you answer the respective questions in the appropriate answer book.
 - b. Write your examination number on the cover of each answer book.
 - c. Answer **ALL** questions (nine questions). They are worth equal marks and you should spend approximately ten minutes for each question.
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Scenario A

A 60-year-old man, previously healthy, is scheduled for robotic assisted laparoscopic radical prostatectomy.

- 1) What are your anaesthetic considerations?
- 2) During preoperative assessment, the electrocardiogram (ECG) reveals a corrected QT interval (QTc) of 480 ms. Describe your anaesthetic management of this patient with regards to this ECG change.
- 3) The patient develops fever three days later.
 - a) List the risk factors for developing postoperative surgical infection (30%).
 - b) How can you minimize postoperative infection in this patient (70%)?

Scenario B

A 35-year-old man is scheduled for elective transphenoidal pituitary surgery for pituitary gland tumour.

- 1) Describe your preoperative anaesthetic assessment in relation to his pituitary tumour.
- 2) Describe your intraoperative (70%) and postoperative (30%) anaesthetic management of this patient.
- 3) Post-operative CT scan of brain showed massive intra-cerebral haemorrhage and patient was confirmed to be brain dead. Consent is obtained for organ donation.

Describe your anaesthetic management of this brain dead organ donor to undergo organ harvest.

Scenario C

A 13-year-old boy with Marfan's syndrome and thoracolumbar scoliosis is scheduled for posterior spinal fusion and instrumentation of T2 to L3.

- 1) What are your anaesthetic considerations for this patient with reference to the Marfan's syndrome?
- 2) Discuss your options for blood conservation in this patient.
- 3) Surgery lasted 9 hours with 2 liters blood loss. He was transfused with 3 units of red blood cells and Hb was 8.6 g/dl at the end of surgery. He woke up uneventfully , was extubated and transferred to the recovery room. However 1 hour later he complained to the nurse about blurred vision.
 - a) What are your differential diagnoses (50%)?
 - b) Discuss your management (50%).

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