



The Hong Kong College of Anaesthesiologists

Final Fellowship Examination

Paper I

23rd March 2007 (Friday)

09:00 – 10:30 hrs

Instructions:

- There are three pre-labelled answer books. Please make sure you answer the respective questions in the appropriate answer book.
 - Write your examination number on the cover of each answer book.
 - 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 74-year-old lady presents for right carotid endarterectomy under regional anaesthesia.

- Describe the performance of the regional anaesthetic technique required for this procedure and outline the complications and contraindications.
- Outline the intra- and post-operative management of this patient.
- Briefly explain the physiological changes that may occur with carotid cross clamping.

Scenario B

A 32-year-old healthy man requires a posterior fossa exploration for an acoustic neuroma. Surgery will be performed in the sitting position.

- What anaesthetic technique would you choose for this patient? Justify your choice.
- What specific problems could arise during this type of surgery and how would you monitor for them?
- During removal of the tumour, the patient's pulse oximeter reading (SpO₂) drops to 78% and end-tidal carbon dioxide (ETCO₂) drops to 20 mmHg. His heart rate is 70 per minute and the blood pressure 106/63 mmHg. What will be your immediate treatment?

Scenario C

A 68-year-old male with no significant past medical history was found to have carcinoma of oesophagus and is scheduled for Ivor-Lewis oesophagectomy (involving two-stages laparotomy and right thoracotomy).

7. Outline the pre-operative and post-operative factors that may contribute to the post-operative respiratory complication for patient undergoing Ivor-Lewis oesophagectomy.
8. You notice in your pre-operative assessment that the patient has features suggestive of difficult intubation. List the options of lung isolation techniques and justify your choice for this patient.
9. In the operating suite, the surgeon suggests to restrict the use of intra-operative intravenous fluid. What would be your considerations? Discuss your strategy of intra-operative fluid management.

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