



The Hong Kong College of Anaesthesiologists

Final Fellowship Examination

Paper II

15th March 2013 (Friday)

11:00 – 12:30 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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1. Describe the anatomy of the thoracic paravertebral space. List the indications and complications of a paravertebral nerve block.
2. A 2-year-old boy with severe mental retardation and spastic cerebral palsy is required to have magnetic resonance imaging of the entire spine for investigation of spinal cord tethering. Outline the problems in providing anaesthetic support to facilitate MRI examination.
3. A 40-year-old, 80 kg, man presents with significant burns in the emergency department, his clothes having caught fire at work (in a plastics factory).
 - a) How would you assess burns percentage and airway involvement? How would you manage airway involvement?
 - b) Apart from smoke inhalation itself, what two toxic components of the smoke may need special consideration? What problems do they cause and how would you manage them?
4. List the characteristic features of severe myasthenia gravis(MG) and its treatment. Outline the important points in managing a patient with MG for laparotomy.
5. What is the Modified Goldman Index of a 70-year-old man with a history of inferior myocardial infarction complicated by congestive heart failure one year ago for laparoscopic hemicolectomy? Discuss the pre-operative strategies to lower perioperative cardiac risk in this patient
6. Outline the pros and cons of accepting geriatric patients for day case surgery and strategies to provide anaesthesia to elderly in the ambulatory setting.
7. A 22-year-old man is scheduled for extraction of his wisdom teeth as day case in your hospital. He had an uneventful appendectomy under general anaesthesia 10 years ago. He also mentioned that his uncle was recently diagnosed to have exercise-induced rhabdomyolysis pending muscle biopsy. Is day surgery suitable for his condition? How would you manage his anaesthesia?

8. A 28-year-old otherwise well lady presents at 37 weeks gestation with a blood pressure of 160/90. How would you determine if she has severe preeclampsia and discuss the role of magnesium sulphate in her management?
9. List the risk factors leading to contrast induced nephropathy after endovascular infrarenal aortic aneurysmal repair. Discuss preventive measures to reduce the risk of contrast induced nephropathy.

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