



The Hong Kong College of Anaesthesiologists
Intermediate Fellowship Examination
Written Paper in Pharmacology
Friday 12th July 2002 14:00-16:00 hrs

Answer ALL Questions

1. Describe the pulmonary effects of sevoflurane.
2. Describe different types of local anaesthetic toxicity including some risk factors for each.
3. Classify beta-adrenergic receptor antagonist drugs indicating differences in effects. Provide examples.
4. List 4 classes of membrane-associated drug target sites where drugs exert their effect on cells, giving an example of drug action at each.
5. Describe the pharmacological effects in an adult patient after receiving 0.4 mg naloxone intravenously following a suspected morphine overdose.
6. Discuss the practice of mixing drugs in the same syringe in anaesthesia and pain management. Give examples to illustrate your points.
7. Briefly describe the pharmacological effects and clinical applications of vasopressin.
8. How does a bolus dose of intravenous mannitol 0.5 G kg⁻¹, given over 10 min, produce its diuretic effect? Contrast these effects with those of one litre of normal saline given intravenously over the same time period.
9. Outline the pharmacodynamic effects of etomidate.
10. Describe the mechanisms of actions of droperidol and list its uses and adverse effects.
11. List the causes of variability in patient's response to neuromuscular blockers.
12. Discuss the use of p-value in hypothesis testing.

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