



The Hong Kong College of Anaesthesiologists

Intermediate Fellowship Examination January/March 2000

Pharmacology Questions

- Q1. Compare and contrast the pharmacology of Alfentanil and Remifentanil explaining why they have different duration of action.
- Q2. Define the terms Summation, Potentiation, Synergism and Antagonism, giving examples as illustration.
- Q3. Describe how the physiochemical properties of local anaesthetics relate to their potency, speed of onset and duration.
- Q4. Compare and contrast diazepam and midazolam
- Q5. Prostaglandins PGE₂, PGF₂ α and PGF₁ analogues have been used as abortifacients uterine stimulants before and during anaesthesia. Describe the mechanism of action and their potential adverse effects.
- Q6. Briefly describe the factors modifying the induction dose of thiopentone in anaesthesia.
- Q7. Describe the haemodynamic effects of nitroglycerin and explain how different routes of administration affect its action?
- Q8. Explain chirality (enantiomerism) and briefly discuss its importance to the pharmacology of anaesthetic drugs, giving examples to illustrate your answer.
- Q9. Describe the clinical features of digitalis toxicity including factors that predispose to its toxicity.
- Q10. Compare and contrast atropine and glycopyrrolate
- Q11. Discuss the importance of plasma cholinesterases in anaesthesia.
- Q12. Describe Chi-square test, and outline the limitations of this test?