Drug Calculation Exam Practice (Adult) – Set 5

1) Patient A is prescribed Ibuprofen 300mg t.d.s., stock strength available is 150mg. How many tablets will you give every eight hours?

2) Patient A is prescribed a daily dose of 48.5 micrograms of Digoxin. Expressed in milligrams, how much will the patient receive?

3) The drug Dopamine is prescribed at 2.5 micrograms/kg/day. Patient A weighs 63kg, what is the total amount of Dopamine that Patient A will need?

4) A female patient who weighs 65.5 kg is prescribed the antibiotic Cidomycin 2.5 mg/kg/day i.v. Calculate the dose in mg of Cidomycin?

5) A patient is prescribed Heparin 15,000 units s.c. Stock strength available is 2500 units in 0.1 mL. What is the volume in mL that the patient will receive?

6) A post-operative patient is prescribed 80 mg Pethidine i.m. every 4 hours. Stock available is 100 mg/2 mL. If the patient has had 3 doses so far, what is the total volume of Pethidine in mL they have had?

7) Patient A has severe nausea and vomiting and is prescribed Maxalon high dose 200 mg in 450 mL 0.9% Normal Saline to infuse over 8 hours via a volumetric pump. How many mL/hr will you set the pump to two decimal places?

8) Mrs Chung is prescribed 550 mL of 5% Dextrose to run over 6 hours using an i.v infusion set that delivers 20 drops/mL. To the nearest whole number, how many drops/min will you need to set the infusion at?

9) Mr Tai is prescribed Phenytoin 200 mg o.d via a PEG tube, stock strength available is 40 mg in 8 mL. What is the concentration of Phenytoin in mg/mL that will be administered?

10) Patient X is prescribed 12 mg morphine in 25 mL 0.9% Normal Saline via an infusion pump. What is the concentration of morphine in mg/mL?