**Hourly infusion prescriptions**

**The Answers**

#### Exercise 1

**1.** Your patient needs to be administered 0.2 mcg/Kg/Min of a drug. Your patient’s weight is 35 Kg. The infusion used in your area is 12mg/50ml. Calculate the rate per hour you would set this infusion up for?

* 1.75ml/hr

**2.** Your patient has an infusion of heparin 50 000units running at 2mls/hour. How many units is your patient receiving of heparin? N.b the infusion is 50ml.

* 2 000 units

**3.** You need to administer 1mcg/Kg/Min of a drug. The infusion available is 800mg/500ml and your patient weights 30Kg. How many millilitres per hour would you set this infusion for?

* 1.13 ml/hr (two decimal places)

**4.** You set up an infusion of dopamine containing 80mg/50ml and set the rate as 2ml/hr. How many milligrams of the drug is the patient receiving per hour?

* 3.2 mg

**5.** The prescription for your patient is 4mcg/Kg/Min of a drug. Your patient weighs 48Kg and the standard infusion for your area is 200mg/50ml. What rate would you set this infusion for?

* 2.88ml/hr

#### Exercise 2

**1.** Your patient has been prescribed 0.08mcg/Kg/Min of a drug. The patient weighs 45Kg and the infusion used in your unit is 4mg/50ml. What rate per hour would you set this infusion up for?

* 2.7ml/hr

**2.** The prescription for your patient is 5mcg/Kg/Min of a drug. Your patient weighs 78Kg and the standard infusion for your area is 200mg/50ml. What rate would you set this infusion for?

* 5.85ml/hr

**3.** Your patient has been prescribed heparin 15 000units over 24 hours. The ampoules available are 25 000units/ml. How many millilitres would you draw up and what rate would you set this infusion for to administer 1000units/hour

* 0.6ml. 2ml/hr

**4.** Your patient needs to be administered 0.3 mcg/Kg/Min of a drug. Your patient’s weight is 52 Kg. The infusion used in your area is 12mg/50ml. Calculate the rate per hour you would set this infusion up for?

* 3.9ml/hr

**5.** Your patient has been prescribed 50units actrapid/50ml and requires 6 units per hour administered initially. What rate would you set this infusion for?

* 6 units

#### Exercise 3

**1.** The prescription for your patient is 4mcg/Kg/Min of a drug. Your patient weighs 44Kg and the standard infusion for your area is 200mg/50ml. What rate would you set this infusion for?

* 2.64ml/hr

**2.** Your patient needs to be administered 0.2 mcg/Kg/Min of a drug. Your patient’s weight is 38 Kg. The infusion used in your area is 12mg/50ml. Calculate the rate per hour you would set this infusion up for?

* 1.9ml/hr

**3.** Your patient has been prescribed 0.06mcg/Kg/Min of a drug. The patient weighs 52Kg and the infusion used in your unit is 4mg/50ml. What rate per hour would you set this infusion up for?

* 2.34ml/hr

**4.** Your patient has been prescribed 50units actrapid/50ml and requires 2 units per hour administered initially. What rate would you set this infusion for?

* 2 ml/hr

**5.** You need to administer 30 000units heparin as a continuous infusion over 24 hours. The ampoules available are 50 000units/ml. How many millilitres do you need to draw up? What rate do you need to set this infusion for to administer 1800 units/hour?

* 0.6ml and 3ml/hr

#### Exercise 4

**1.** Your patient has been prescribed 50units actrapid/50ml and requires 8 units per hour administered initially. What rate would you set this infusion for?

* 8ml/hr

**2.** Your patient has an infusion of heparin 75 000units running at 3mls/hour. How many units is your patient receiving of heparin? N.b the infusion is 50ml.

* 4 500 units

**3.** You need to administer 0.5mcg/Kg/Min of a drug. The infusion available is 800mg/500ml and your patient weights 42Kg. How many millilitres per hour would you set this infusion for?

* 0.79 (two decimal places)

**4.** You set up an infusion of dopamine containing 80mg/50ml and set the rate as 4ml/hr. How many milligrams of the drug is the patient receiving per hour?

* 6.4mg

**5.** You need to administer 2mcg/kg/min to your patient who weighs 32kg. The standard infusion rate for your area is 80mg/50ml. How many millilitres per hour would you set this infusion for?

* 2.4ml/hr