

Greg kelley

Dosage Calculation Worksheet #2

1. The IV order is for D₅W to infuse at 100 mL/hr. The drop factor is 10 gtt/mL. How many drops per minute (gtt/min) should the pump be set to run? Round final answer to whole number.

$$10 \times 100 = 1,000$$

$$1,000 / 60 =$$

$$17 \text{ gtt/min}$$

2. Medication order: Rocephin 1 g IV every 12 hours over 30 minutes. Available: rocephin 1 g in 150 mL NS. At what rate would you set your pump?

$$150 / 30 =$$

$$5 \text{ mL/min}$$

3. Medication order: Vistaril 20 mg IM q4h PRN for nausea. The 10 mL vial that you have available is labeled 25 mg/mL. How many mL will you draw up to give?

$$20 \times 1 / 25 =$$

$$0.8 \text{ mL}$$

4. Medication order: Haldol 3 mg IM q6h PRN for agitation. The 1 mL vial that you have available is labeled 5 mg/mL. How many mL will you draw up to give?

$$3 \times 1 / 5 =$$

$$0.6 \text{ mL}$$

5. Medication order: heparin 5000 units subQ every 12 hours. Drug available: heparin 10,000 units/2 mL. How many mL will you administer for the day?

$$5000 \times 2 / 10,000 =$$

1x2

2 mL per day

6. A patient has an order for 200 mg q8h of cimetidine (Tagamet) to be administered intramuscularly. The vial of 8 mL contains 300 mg per 2 mL. How many mL would you give q8h?

$$200 \times 2 / 300 =$$

1.3 mL

7. Medication order: Garamycin 80 mg IVPB over 30 minutes. Available: Garamycin (gentamicin sulfate) 80 mg in 50 mL of D₅W. Calculate the flow rate in mL/hr.

$$80 \times 50 / 80 =$$

$$50 \times 2 = 100$$

100 mL/hr

8. You have an IV infusing at 125 mL/hr. How long will it take 1500 mL to infuse?

$$1500 / 125$$

12 hr

9. Medication order: rocephin g 1 IV every 12 hours over 30 minutes. Available: rocephin 1 g in 150 mL NS. At what rate would you set your pump?

$$150 / 30 =$$

5 mL/min

10. An infusion pump is set to administer 75 mL/hr to a patient. How many hours will it take for the patient to receive 600 mL of fluid?

$$600/75 =$$

8 Hours

11. A patient is to receive lidocaine hydrochloride (Xylocaine) 100 mg as an intravenous bolus. The Xylocaine is labeled 20 mg/mL. How many milliliters should be administered?

$$100 \times 1/20$$

5 mL

12. Medication order: 50 mg/kg/day. Patient weight: 85.8 pounds. The patient will receive ____ mg/day.

$$85.8/2.2 = 38.9$$

$$50 \times 38.9 =$$

1945 mg/day

13. Medication order: Amoxicillin 2.5 mL every 8 hours. Available is Amoxicillin 250 mg/5mL. The nurse will administer how many mg for the day?

$$2.5 \times 3 = 7.5$$

$$7.5 / 5 = 1.5$$

$$250 \times 1.5 =$$

375 mg

14. Medication order: Ondansetron 2 mg – 4 mg/kg/Q 4 hours po PRN nausea. The patient weighs 66 lbs. What is the minimum amount of medication in grams that can be administered every 4 hours?

$$66/2.2 = 20$$

$$20 \times 2 =$$

40 mg

15. Medication order: 5 mL of normal saline is added to a vial of Lasix 20 mg/5 mL. How many milligrams of Lasix are in each millimeter of fluid?

20/5 =

4 mg per mL