

Dosage Calculation Worksheet #4

1. Ordered is flucloxacillin 250mg IM. Available is 1 G in 10 mL. How much should the nurse administer in mL?

$$\frac{1000}{10} \quad \frac{250}{X} \quad 2.5 \text{ mL}$$

2. Order: Administer 160 mg IV. Available is 100 mg/2 mL. How much should the nurse administer in mL?

$$\frac{160}{100} \times 2 = 3.2 \text{ mL}$$

3. Azulfidine 1.5 g has been ordered every 12 hrs. Available are 500mg tablets. How many tablets should the nurse administer per day?

$$1.5 \times 1000 = 1500 \quad \frac{1500}{500} = 3 \text{ tablets } \times 2 \text{ a day } \quad 6 \text{ tabs}$$

4. Ergotrate maleate 200 mcg is ordered po daily. Available is 0.2 mg. How many tablets should the nurse administer?

$$200 \div 1000 = 0.2 \quad 1 \text{ tablet}$$

5. From 0700 to 1900 the nurse calculates the patient's total intravenous fluid intake as \_\_\_?\_\_\_ milliliters. An IV is infusing at 50 mL/hour. At 0900 the patient will receive IVPB of 125 mL for 30 minutes. What is the total amount in mL the patient will receive during this time?

$$575 + 125 = 700 \text{ mL}$$

6. Solumedrol 1.5 mg/kg is ordered for a child weighing 42 lb. Solumedrol is available as 75 mg / 1 mL is available. How many mL must the nurse administer?  $42 \div 2.2 = 19.09 \rightarrow 19.1 \text{ kg}$

$$19.1 \times 1.5$$

0.4 mL

7. Give patient 17.1 mg of dopamine in 223 mL of D5W to be infused at a rate of 17,221 mcg/hr. Calculate the flow rate in mL/hr.

$$17,221 \div 1000 = 17.221 \text{ mL} \rightarrow 17.2 \text{ mL}$$

$$17.2 \times 223 \div 17.1 =$$

224.3 mL/hr

8. Calculate the IV flow rate for 0.2 L of D5W IV over 462 min. Infusion set has drop factor of 59 gtts/mL. What is the IV flow rate in gtts/min?

$$0.2 \times 1000 = \frac{200}{462} \times 59 = 25 \text{ gtts/min}$$

25.54 ↗

$$24 \div 1000 = 0.024 \text{ mg} \quad 22,000,000 \times 1000 = 22,000 \text{ mg}$$

9. Ordered Lasix 24 g IV push now. Available: 22,000,000 mcg in 12 mL. How much will the nurse draw up?

$$\frac{0.024}{22000} \times 12 = 13.1 \text{ mL}$$

10. Calculate the IV flow rate for 392 mL of D5W IV over 582 min. Infusion set has drop factor of 74 gtts/mL. What is the IV flow rate in gtts/min?

$$\frac{392}{582} \times 74 = 50 \text{ gtts/min}$$

11. From 0700 to 1800 the nurse calculates the patient's total intravenous fluid intake as 1 milliliters. An IV is infusing at 100 mL/hour. At 0900 and 1500, the patient will receive IVPB of 75 mL for 30 minutes. What is the total amount the patient will receive during this time?

$$\begin{array}{r} 100 \\ \times 10 \\ \hline 1000 \end{array} \quad \begin{array}{r} 1000 \\ + 150 \\ \hline 1150 \end{array} \quad 1,150 \text{ mL}$$

12. Ordered 7 g of Amoxicillin. Amoxicillin is available as 0.016 g per 20 mL. How much will the nurse draw up?

$$\frac{14,000}{20} \times \frac{7000}{10000} = 8.9 \text{ mL}$$

13. Potassium chloride is available as 0.016 kg per tablet. Potassium Chloride (K-Dur), 24,000,000 mcg, is ordered. How many tablets would the nurse administer?

$$\frac{24000}{16000} = 1.5 \text{ tablets}$$

14. Aggrastat at 23.8 mg in 129 mL is to be infused at 3 mcg/kg/hr in a patient who weighs 82 kg. At what flow rate in mL/hr will you set the pump?

$$\frac{23.8 \text{ mg}}{129 \text{ mL}} \quad \frac{0.246}{1.3} \quad 1.3 \text{ mL/hr}$$

15. Administer <sup>60mg</sup> 0.06 g of codeine po now. Available are 30 mg tablets. How many tablets should the nurse administer?

$$\begin{array}{r} 30 \\ +30 \\ \hline 60 \end{array} \quad ? \quad 2$$

2 tablets