

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?

$$\frac{0.25g}{1g} \times 10mL = 2.5mL$$

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

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

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

$$1500mg \times 2 = \frac{3000mg/day}{500mg} = 6 \text{ TAB/DAY}$$

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

$$0.2mg = 0.2mg \quad 1 \text{ TAB}$$

- *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?

$$12 \text{ hr} \times 50 = 600 + \frac{125}{2} = 700mL$$

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?

$$19.1kg \times 1.5mg = \frac{28.65mg}{75mg} \times 1mL = 0.38mL$$

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.

$$\frac{17.221mg}{17.100mcg} \times 223mL = 224.6mL/hr$$

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?

$$\frac{200mL}{462} \times 59gtts/mL = 25.5 \rightarrow 26gtts/min$$

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

$$\frac{24g}{22g} \times 12mL = 13.1mL$$

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?

$$\frac{392mL}{582min} \times 74gtts = 49.8 \rightarrow 50gtts$$

- *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?

$$100mL \times 10hr = 1,000 \\ 75 \times 2 = 150 \\ 1,150mL$$

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

$$\frac{7g}{16g} \times 20mL = 8.8mL$$

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?

$$\frac{24g}{16g} = 1.5 \text{ TAB}$$

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?

$$0.003mg \times 82kg = \frac{0.246mg}{23.8mg} \times 129mL = 1.3mL/hr$$

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

$$\frac{60mg}{30mg} = 2 \text{ TAB}$$