

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?

$$\frac{250\text{mg}}{1000\text{mg}} \times \frac{10\text{mL}}{1} = 2.5\text{mL}$$

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

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

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

$$1.5\text{g} = 1500\text{mg} \times \frac{1\text{tab}}{500\text{mg}} = 3\text{ tablets per dose} = 6\text{ tabs per day}$$

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

$$0.2\text{mg} \times \frac{1\text{tab}}{0.2\text{mg}} = 1\text{tab}$$

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?

$$12\text{ hrs} \times 50\text{mL} = 550 + 125\text{mL} + 25\text{mL} = 700\text{mL}$$

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?

$$42 / 2.2 = 19.09 \times 1.5 = 28.6\text{mg} \times \frac{1\text{mL}}{75\text{mg}} = 0.38\text{mL}$$

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.

$$\frac{17.221\text{mg/hr} \times 223\text{mL}}{17.1\text{mg}} = 224.57\text{mL/hr} = 224.6\text{mL/hr}$$

8. Calculate the IV flow rate for 200 mL of D5W IV over 462 min. Infusion set has drop factor of 59 gtt/mL. What is the IV flow rate in gtt/min?

$$\frac{200\text{mL}}{462\text{min}} \times 59\text{gtts/mL} = 25.54\text{gtt/min} = 25.5\text{gtt/min}$$

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

$$24\text{ g} \times \frac{12\text{ mL}}{22\text{ g}} = 13.09\text{ mL} \quad \boxed{= 13.1\text{ mL}}$$

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

$$\frac{392\text{ mL}}{582\text{ min}} \times 74\text{ gtt/mL} = 49.84\text{ gtt/min} \quad \boxed{= 49.8\text{ gtt/min}}$$

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?

$$9\text{ hrs} \times 100\text{ mL} = 900 + 75 + 75 + 50 + 50 \quad \boxed{= 1150\text{ mL}}$$

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

$$7\text{ g} \times \frac{20\text{ mL}}{0.016\text{ kg}} = 8.75\text{ mL} \quad \boxed{= 8.8\text{ mL}}$$

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

$$24\text{ g} \times \frac{1\text{ tab}}{.16\text{ g}} = 1.5\text{ tabs} \quad \boxed{= 1.5\text{ tabs}}$$

14. Aggrastat at 23.8 mcg 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?

$$82 \times 3 = 246 \quad \frac{246\text{ mcg/hr}}{23800\text{ mcg}} \times 129\text{ mL} = 1.33\text{ mL/hr} \quad \boxed{= 1.3\text{ mL/hr}}$$

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

$$60\text{ mg} \times \frac{1\text{ tab}}{30\text{ mg}} = 2\text{ tab} \quad \boxed{= 2\text{ tab}}$$