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due NOV 2

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?

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

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

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

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

$$\frac{1500\text{mg}}{500\text{mg}} : 3 \times 2 = \boxed{6 \text{ tablets/day}}$$

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

$$\frac{200\text{ mcg}}{200\text{mcg}} = \boxed{1 \text{ tablet/day}}$$

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?

$$11 \times 50 = 550 + 25 + 125 = \boxed{700\text{mL}}$$

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?

$$1.5 \times 19 = \frac{28.5 \times 1}{75} = \boxed{0.38\text{mL}}$$

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.

$$\frac{17{,}221\text{ mcg}}{1\text{hr}} \times \frac{223\text{mL}}{17{,}000\text{mcg}} = \boxed{226\text{mL/hour}}$$

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?

$$\frac{200\text{mL} \times 59}{462\text{min}} = \boxed{26\text{gtt/min}}$$

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

$$\frac{24g \cdot 12mL}{22g} = 13.1\,mg$$

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?

$$\frac{392\,mL \cdot 74\,gtt/mL}{582\,min} = \boxed{50\,gtt/min}$$

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?

$100 \times 10 = 1000\,mL + 150\,mL = \boxed{1150\,mL}$

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

$$\frac{7g \cdot 20mL}{16g} = \boxed{8.75\,mL}$$

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?

$$\frac{24g}{16g} = \boxed{1.5\ tablets}$$

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?

$$\frac{0.111\,mg}{1\,hour} \times \frac{129\,mL}{23.8\,mg} = \boxed{0.6\,mL/hour}$$

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

$$\frac{60mg}{30mg} = \boxed{2\ tablets}$$