# 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?

$$\frac{0.25g}{1g} \Big| \frac{2.5mL}{10mL}$$

$\boxed{2.5mL}$

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

$$\frac{160mg}{100mg} \Big| \frac{3.2mL}{2mL}$$

$\boxed{3.2mL}$

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

$$\frac{1500mg}{500mg} \Big| \frac{3tab}{1tab}$$

$\boxed{4 tab/day}$

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

$$\frac{0.2mg}{0.2mg} \Big| 1tab$$

$\boxed{1 tab}$

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?

50 mL/hr/12 hrs

125 mL 30 min

575
125

$\boxed{700mL}$

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?

19.1 kg × 1.5 mg/kg = 28.6 mg/kg/dose

$$\frac{28.6}{75} \Big| \frac{0.38}{1mL}$$

$\boxed{0.38mL}$

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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.

$$\frac{17\,221\ mcg}{17,100\ mcg} \Bigg| \frac{224.6\ mL}{223\ mL}$$

$$\boxed{224.6\ mL}$$

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?

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

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

$$22g/12\ mL$$

$$\frac{24g}{22g} \Bigg| \frac{13.1\ mL}{12\ mL}$$

$$\boxed{13.1\ mL}$$

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?

$$\frac{392\ mL}{582\ min} \times 74\ gtts = \boxed{49.8\ gtts/min}$$

11. From 0700 to 1800 the nurse calculates the patient's total intravenous fluid intake as ▨▨ 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?

$$100\ mL/hr \rightarrow 11\ hrs$$
$$150\ mL/hr \rightarrow 1\ hr$$

$$\begin{array}{r} 1000 \\ 150 \\ \hline \boxed{1150\ mL} \end{array}$$

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

$$16g/20\ mL$$

$$\frac{7g}{16g} \Bigg| \frac{8.75}{20\ mL}$$

$$\boxed{8.8\ mL}$$

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?

$$\frac{24,000,000}{16,000,000} \bigg| \frac{1.5 \text{ tab}}{1 \text{ tab}}$$

.016000000

$$\boxed{1.5 \text{ tab}}$$

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?

$$82 \text{ kg} \cdot 3 \text{ mcg} = 246 \text{ mcg/dose}$$

$$\frac{246}{23800 \text{ mcg}} \bigg| \frac{\boxed{1.3 \text{ mL}}}{129 \text{ mL}}$$

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

$$\frac{60 \text{ mg}}{30 \text{ mg}} \bigg| \frac{\boxed{2 \text{ tabs}}}{1 \text{ tab}}$$