

Maddison Bushell 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?

$$\frac{250}{x} = \frac{1000}{10} \quad \boxed{2.5 \text{ mL}}$$

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

$$\frac{160}{x} = \frac{100}{2} \quad \boxed{3.2 \text{ mL}}$$

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

$$1500 \times 2 = \frac{3000 \text{ mg}}{500 \text{ mg}} \quad \boxed{6 \text{ tablets daily}}$$

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

$$\boxed{1 \text{ tablet daily}}$$

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?

$$12 \times 50 = 750 \quad 750 + 125 = \boxed{875 \text{ mL}}$$

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?

$$\frac{75}{1} = \frac{28.65}{x} \quad 19.1 \text{ kg} \times 1.5 = 28.65$$

$$\boxed{0.4 \text{ mL}}$$

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.

$$\frac{17100}{223} = \frac{17,221}{x} \quad \boxed{224.58 \text{ mL/hr}}$$

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

$$\frac{2000 \text{ mL}}{x} \quad \frac{1 \text{ mL}}{59 \text{ gtts}} \quad \frac{118,000 \text{ gtts}}{462} \quad \boxed{255.4 \text{ gtts/min}}$$

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

$$\frac{24,000,000}{22,000,000} \times \frac{12}{12}$$

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?

$$74 \times 392 = 29,008$$

49.8 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?

$$10 \times 100 + 75$$

1075 mL

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

$$\frac{1 \text{ kg}}{20 \text{ mL}} = \frac{7 \text{ g}}{x} \quad \frac{140}{16} = \frac{16 \times}{16}$$

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?

$$1 \text{ kg} \quad 24 \text{ g}$$

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?

$$\frac{23.8 \text{ mg}}{129} \quad 0.003 \times 82 = 0.246 \text{ /hr}$$

$$1.8449612 \text{ mg/mL} \quad 1.3 \text{ mL/hr}$$

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

$$\frac{60 \text{ mg}}{30}$$

2 tablets