Dosage Calculation Worksheet #4   Stacy Warner

1. Ordered is flucloxacillin 250mg IM. Available is 1 G in 10 mL. How much should the nurse administer in mL?

   O: 250 mg IM
   A: 1 G/10 mL

   $$\frac{250 \text{ mg} \times 10 \text{ mL}}{1,000 \text{ mg}} = \boxed{2.5 \text{ mL}}$$

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

   O: 160 mg
   A: 100 mg/2 mL

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

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

   O: 1.5 g every 12 hrs
   A: 500 mg tablets

   0.5 g   × 2 $\boxed{6 \text{ tablets}}$

   $$\frac{1.5 g \times 1 \text{ tablet}}{0.5 g} = 3$$

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

   O: 200 mcg
   A: 0.2 mg
      200 mcg   ①

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?

   0700 - 1900 = 12 hrs   12 × 50 mL = 600 mL
                               11 × 50 mL = 550 mL
                               550 + 125 + 25 = $\boxed{700 \text{ mL}}$

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? 42 ÷ 2.2 = 19.1 kg

   1.5 mg × 19.1 = 28.7 mg
   O: 28.7 mg A: 75 mg/1mL

   $$\frac{28.7 \text{ mg} \times 1 \text{ mL}}{75 \text{ mg}} = \boxed{0.38 \text{ mL}}$$

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. 17. 1 mg → 17,100 mcg

   $$\frac{17,221 \text{ mcg/hr}}{17,100 \text{ mcg}} = 1 \times 223 \text{ mL} = \boxed{223 \text{ mL/hr}}$$

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?

   $$0.2 \times 1,000 = \frac{200 \text{ mL}}{462 \text{ min}} = 0.43 \times 59 \text{ gtts/mL} = \boxed{25.4 \text{ gtts/min}}$$