Crystal Fabila

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?

1,000 in 10mL
100mg in 1mL

2.5mL

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

a: 100mg/2mL
o: 160mg

320/100 = 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?

g->mg or: 1500mg x 2
1.5 -> 1,500 a: 500mg

6 tablets

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

mg->mcg
0.2 -> 200

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?

11.5 x 50 = 575 + 125 = 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?

42 ÷ 2.2 = 19.1 -> 28.65 ÷ 75 = 0.4mL

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.

mg->mcg
17.1 -> 17,100

$\frac{223}{17,100} \times \frac{17,221}{1} = \frac{3,840,283}{17,100} =$ 225 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?

200mL

200/462 x 59 = 26 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?

g -> mg
24 -> 24,000

24,000,000 x 12 ÷ 22,000,000 = 13mL

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?

392 1582x74 = 500gtts/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?

$\frac{1mL}{6} \times \frac{100mL}{4.5} \times \frac{75}{30} = \frac{7500}{810} = 9mL$

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

g -> kg
7 -> 0.007

0.007 x 20 / 0.016 = 9mL

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?

mcg -> kg
24,000,000 -> 0.024

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?

mg -> mcg
23.8 -> 23,800

$\frac{23,800}{129} \times \frac{1}{3} = \frac{23800}{387} = 61.5mL/hr$

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

g -> mg
0.06 -> 60

2 tablets