Kayla Rodriguez

# 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?

2.5 mL

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

3.2 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?

6 tablets/day

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

1 tablet

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?

700 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?

0.38 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.

224.6 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?

26 gtts/min

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

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?

50 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?

1,150 mL

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

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?

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?

1.3 mL/hr

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

2 tablets

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# Dosage Calculation 4

1. D: 250 mg
H: 1g/10mL 1,000mg/10mL
DV/H

$\frac{250 \cdot 10}{1,000} = 2.5\ mL$

2. D: 160mg
H: 100mg/2mL
DV/H

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

3. 1.5g every 12 hrs = 3 g/day
$\times 2$ / 3
3g = 3,000 mg
500 mg/tablet
DV/H

$\frac{3,000 \cdot 1}{500} = 6\ tablets/day$

4. D: 200mcg
H: 0.2mg/tablet 200mcg/tab

1 tablet

5. 0700 - 1900 = 12 hrs - 1 = 11hrs
0900 - 125mL/30min
$\frac{50\ mL/hr}{2} = \frac{25\ mL/30\ min}{150/hr}$

$\times 50$ / 550
$+150$ / 700

700 mL

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6. D: 1.5 mg/kg
H: 75 mg/mL
42 lbs = 19.1 kg

$19.1 \times 1.5 = 28.65$

$\frac{28.65 \times 1}{75} = 0.382 = 0.38 \text{ mL}$

0.38 mL

7. 17.1 mg / 223 mL
17,221 mcg/hr = 17.221 mg

$\frac{17.1}{223} = \frac{17.221}{x}$

224.6 mL

$\frac{17.1x}{17.1} = \frac{3,840.283}{17.1} = 224.577$

8. 0.2 L over 462 min. 0.2 L = 200 mL
DF: 59 gtts/mL

$200 \cdot 59 = \frac{11,800 \text{ gtts}}{462} = 25.54 =$ 26 gtts/min

9. 24 g
22,000,000 mcg / 12 mL = 22,000 mg = 22 g / 12 mL

$\frac{24 \cdot 12}{22} = 13.09 =$ 13.1 mL

10. 392 mL over 582 min
DF: 74 gtts/mL

$\frac{392 \times 74}{582} = 49.84 =$ 50 gtts/min

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11. 0700 - 1800 = 11 hrs - 2 hr = 9

0900 - 75 mL / 30 min
100 mL/hr ÷ 2 = 50 mL / 30 min
125 mL/hr

1500 - 75 mL / 30 min
+ 50 mL / 30 min
125 mL/hr

9 x 100 mL/hr = 900 mL
+ 125 mL
+ 125 mL
1,150

(1,150 mL)

12. 7g = 0.007 kg
0.016 kg / 20 mL

$\frac{0.007 \times 20}{0.016} = 8.75\ mL$ = (8.8 mL)

13. 24,000,000 mcg = 24,000 mg = 24 g = 0.024 kg
0.016 kg / tab

$\frac{0.024\ kg \times 1}{0.016}$ = (1.5 tablets)

14. 23.8 mg / 129 mL
3 mcg / kg / hr
82 kg

82 x 3 = 246 mcg/hr
0.246 mg / hr

$\frac{0.246 \times 129}{23.8}$ = (1.3 mL)

15. 0.06 g
30 mg/tab = 0.03 g/tab

$\frac{0.06 \times 1}{0.03}$ = (2 tablets)