

Dosage Calculation Worksheet #4

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

$$\frac{250 \text{ mg} \times 10}{1000} = 2.5 \text{ mL}$$

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

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

3. Azulfidine ^{1500mg} 1.5 g has been ordered every 12 hrs. Available are 500mg tablets. How many tablets should the nurse administer per day?

$$1500 \text{ mg} \times 2 = 3000 \text{ mg/day} \quad 3000 \div 500 = 6 \text{ tablets/day}$$

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

$$\frac{200 \text{ mcg} \div 1000 = 0.2 \text{ mg po daily}}{\text{available: } 0.2 \text{ mg}} \quad 0.2 \div 0.2 = 1 \text{ tablet}$$

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 IVPB 125 mL/30 min 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?

$$475 \text{ mL} + 125 \text{ mL} + 100 \text{ mL} = 700 \text{ mL}$$

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?

$$42 \text{ lbs} \div 2.2 = 19.1 \text{ kg} \quad 1.5 \text{ mg} / 19.1 \text{ kg} \leftarrow \text{ordered} \quad \text{available} \rightarrow 75 \text{ mg} / 1 \text{ mL}$$

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

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.

$$\frac{17.1 \text{ mg}}{223 \text{ mL}} \quad \frac{17.2}{x} = 224.3 \text{ mL/hr}$$

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

$$0.2 \text{ L} = 200 \text{ mL}$$

$$\frac{200 \text{ mL} \times 59}{462} = 25.5 \text{ gtt/min} = 26 \text{ gtt/min}$$

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

$$24 \text{ g} \times 1000 = 24,000 \text{ mg IV push} \quad \text{Available: } 22,000 \text{ mg} / 12 \text{ mL}$$

$$\frac{24,000 \times 12}{22,000} = 13.1 \text{ mL}$$

Kg g mg mcg
=1000

0700-0900-50ml/hr
SO 100ml
0900 IVPB 125ml/30min
0930-1900-475ml

17,221 ÷ 1000 = 17.2
= 17.2 mg/hr

KL mL
V x d rop-factor
time in mins