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Dosage Calculation Worksheet #2

1. The IV order is for D_5W to infuse at 100 mL/hr. The drop factor is 10 gtt/mL. How many drops per minute (gtt/min) should the pump be set to run? Round final answer to whole number.

~~100mL/1Hr (10 gtt per mL) =~~
or 100mL/60min (10 gtt per mL) = 16.66 = 17 gtt/min

2. Medication order: Rocephin 1 g IV every 12 hours over 30 minutes. Available: rocephin 1 g in 150 mL NS. At what rate would you set your pump? D = 1g, H = 1g, V = 150mL

$\frac{D}{H}(V) \rightarrow \frac{1g}{1g}(150mL) =$ 150 mL/Hr

3. Medication order: Vistaril 20 mg IM q4h PRN for nausea. The 10 mL vial that you have available is labeled 25 mg/mL. How many mL will you draw up to give? D = 20mg, H = 25mg, V = mL

$\frac{D}{H}(V) \rightarrow \frac{20mg}{25mg}(1) =$ 0.8 mL

4. Medication order: Haldol 3 mg IM q6h PRN for agitation. The 1 mL vial that you have available is labeled 5 mg/mL. How many mL will you draw up to give? D = 3mg, H = 5mg, V = mL

$\frac{D}{H}(V) \rightarrow x, \frac{3mg}{5mg}(1mL) =$ 0.6 mL

5. Medication order: heparin 5000 units subQ every 12 hours. Drug available: heparin 10,000 units/2 mL. How many mL will you administer for the day?

D = 5000 units, H = 10,000 units, V = 2mL

$\frac{D}{H}(V) \rightarrow, \frac{5000}{10,000}(2mL) = 0.5mL$ per dose,

24hrs / 12 = 2 → 2(0.5mL) = 1mL

6. A patient has an order for 200 mg q8h of cimetidine (Tagamet) to be administered intramuscularly. The vial of 8 mL contains 300 mg per 2 mL. How many mL would you give q8h?

D = 200 mg, H = 300 mg, V = 2mL

$\frac{D}{H}(V) \rightarrow, \frac{200mg}{300mg}(2mL) = 1.\overline{33} \simeq$ 1.3 mL

7. Medication order: Garamycin 80 mg IVPB over 30 minutes. Available: Garamycin (gentamicin sulfate) 80 mg in 50 mL of D_5W. Calculate the flow rate in mL/hr.

D = 80 mg, H = 80 mg, V = 50 mL

$\frac{D}{H}(V) \rightarrow x, \frac{80mg}{80mg}(50mL) =$ 50 mL/Hr