



ordered: Augmentin Susp 500 mg po 4 times a day on hand: Augmentin Susp 250 mg | 5 m L

 $\frac{ML = 5 \, \text{mL}}{250 \, \text{mg}} = \frac{1500 \, \text{mL}}{10 \, \text{mL}} = 10 \, \text{mL} \text{ per dose}$

ordered: lithium citrate 6 mEq po tid on hand: lithium citrate 8 mEq | 5 mL How much would you give the patient?

 $\frac{ML = 5mL \times lemeg}{dose} = \frac{30mL = 3,75mL}{8} = 3.8mL$

ordered: Potassium chloride 25 mEq po daily. on hand: 40 mEg / 15 mL How many mL do you give ? Round to the tenth.

 $\frac{mL}{dose} = \frac{15 mL}{40 mEq} = \frac{375 mL}{40} = \frac{9.4 mL}{40}$

Along with estimating doses, verifying safe dose ranges (SDR) for medications is another technique that protects patients and nurses from medication dose calculation errors.

FDA approvils guidelines for safe dosages.
Ex: For adult use, 20 mg per day
Ex: SAFe dosage range is 10-20 mg per day
Ex: SDR is 1-2 mg per kg of body weight per day.
To calculate SDR
1. Calculate the low safe dose
2. Calculate the high safe dose

3. Evaluate the order in relation to the SDR and Frequency Schedule.

* SOR is usually for a 24-hour day but order is written per dose.

* Frequency schedule: The number of times at which the total daily / individual dose

4. Decision: * Hold the medication and contact the prescriber if the order is not within the SDR or Frequency. * Give the medication because the order is within the SDR and Freq. Example : ordered: Drug Y, 550 mg gleh-1000 mg = 1g SDR: 25-30 mg per Kg per day in 4 doses 2.2 16 = 1 Kg Patients weight ! 180 16 Available: Drug Y, 0.59 tab Freq matches 2) weight in Kq <u>Kg = 1 Kg X 180 Jb = 180 = 81.8 Kg</u> 2.2 10 weight 2.2 b) SDR low and high dose based on weight Low: mg = 25 mg x 81.8 kg = 2,045 = 2,045 mg per day day 15g x day 1 day high: _mg = 30 mg x 81.8 Kg = 2,454 mg per day day Kgxday c) daily dose ordered 500 mg x 4 doses a day = 2200 mg per day e) 15 the order safe? Low: 2,045 mg 2,200 mg ordered yes it is safe High: 2,454 mg f) How many mL will you give?

mL = 2mL, 550 m/g = 1160 mL = 22 mL per dose.