

Med-Math Calculation Formulas

Dosage Formula (use when solving for ml, tab, cap, mg)

$$1.) \frac{\text{Dr's order}}{1} \times \frac{\text{available form}}{\text{available dose}} \times \left(\frac{\text{conversion}}{\text{if needed}} \right)$$

IV Formulas

2.) when solving for drops per minute (gtt/min) use:

$$\frac{\text{milliliter amount}}{\text{corresponding time}} \times \frac{\text{drop factor gtt}}{1 \text{ ml}} \times \left(\frac{\text{equivalent 1 hr}}{60 \text{ min}} \right)$$

*** macro drop = 10gtt/ml or 15 gtt/ml
micro drop = 60gtt/ml

3.) when solving for ml/hr, U/hr, mg/hr use:

$$\frac{\text{amount}}{\text{corresponding time}} \times \left(\frac{\text{Dr's order}}{\text{order}} \right) \times \left(\frac{\text{equivalent 1 hr}}{60 \text{ min}} \right)$$

() denotes conversions to use only when needed