

IV Drip Medications

Formula for calculating IV drip rate based on volume of fluid to be infused over time:

$$\text{Drops per minute} = \frac{\text{volume to be infused} \times \text{drop factor of set}}{\text{Time in minutes}}$$

$$\frac{V \times D}{T}$$

Formulas for calculating IV drip rates for medication administration:

1. To calculate IV drip rate for medication to be administered based on specific dosages to be infused per minute (non-weight dependent drug):

$$\text{Drops per minute} = \frac{\text{dosage to be administered} \times \text{drop factor of IV set}}{\text{Concentration of medication per cc}}$$

2. To calculate IV drip rate for medication to be administered based on specific dosage per kilogram of body weight per minute (weight-dependent drug):

$$\text{Drops per minute} = \frac{\text{dosage to be administered} \times \text{weight (kg)} \times \text{drop factor}}{\text{Concentration of medication per cc}}$$