

Rockdale Medical Center
Critical Care
Emergency Department
Post Anesthesia Care Unit
Medication Calculation
Study Guide

Formulas to be used for calculations include

1.
$$\frac{\text{Dosage desired} \times \text{wt in kg} \times 60}{\text{concentration}} = \text{ml/hr}$$
2.
$$\frac{\text{Concentration} \times \text{ml/hr divided by 60}}{\text{wt in kg}} = \text{Dosage Desired}$$
3.
$$\frac{\text{Dosage desired} \times 60}{\text{concentration}} = \text{ml/hr}$$

Sample Questions

1. Your patient is on a Dopamine drip at 10mcg/kg/min. Standard concentration of Dopamine is 800mg/250ml. Your patient weighs 80kg. How many ml/hr is your dopamine infusing?
2. Your patient is on a Levophed drip. Standard concentration is 4mg/250ml. Your patient weight is 75kg. The pump reads 15ml/hr. How many mcg/min is your Levophed infusing to your patient?
3. You are hanging a Heparin drip. The physician orders 1000 unit bolus. The standard concentration is 25000 unit/500ml. How many ml do you program the pump?