

# DOSAGE CALCULATION

## Printable PDF

### DOSAGE CALCULATION

#### CONVERSIONS

1 kg = 1000 lbs  
 1000 µg = 1 mg  
 1000 mg = 1 g  
 1000 micrograms = 1 mg  
 1000 ml = 1 liter  
 1 fl oz = 2 oz  
 1 fl oz = 2 oz  
 1 cup = 8 fl oz

#### SOLID DOSAGE CALCULATION

##### Steps

1. Determine the quantity available
2. Determine the dose available
3. Determine the desired dose
4. Determine the units you are calculating and convert if required

##### Formula to use for calculation

$$\frac{\text{Quantity Available}}{\text{Dose Available}} \times \frac{\text{Desired Dose}}{\text{Dose Available}} = \text{X}$$

##### Example

Quantity Available: 1 Tablet  
 Dose Available: 500 mg  
 Desired Dose: 1000 mg  
 Solve:

$$\frac{1 \text{ Tablet}}{500 \text{ mg}} \times \frac{1000 \text{ mg}}{500 \text{ mg}} = 2 \text{ Tablets}$$

#### LIQUID DOSAGE CALCULATION

To administer 500 mg of erythropoietin that is available in a dose of 100mg/ml

##### Solve:

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{500 \text{ mg}}{100 \text{ mg}} = 5 \text{ ml}$$

5 ml of erythropoietin will be administered

#### INJECTIBLE DOSAGE CALCULATION

Order: Administer 50mg of Novocin every 4 hrs.  
The available dose of Novocin is 100mg/ml

##### Solve:

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{100 \text{ mg}} = 0.5 \text{ ml}$$

#### WEIGHT BASED DOSAGE CALCULATION

Order: Administer Amoxicillin 40mg/kg in 2 doses  
 The available dose of Amoxicillin is 400mg/5ml  
 Weight of patient is 50 kg  
 To calculate the dose to be given to a child weighing 50 kg first calculate the dose to be given in mg

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{50 \text{ kg}}{1} = 2000 \text{ mg}$$

Divide the dose with frequency:  $\frac{2000 \text{ mg}}{2} = 1000 \text{ mg}$

#### IV FLOW RATE

##### IV Flow ml/hr

Order: Administer 1,000ml of D5W in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{60 \text{ min}}{1 \text{ hr}} = 6000 \text{ ml/hr}$$

##### IV Flow gtt/min

Order: Administer 1,000ml of D5W in 10 hours (drip chamber)

Drop Factor 15 gtt/ml

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Drop Factor}}{1 \text{ min}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{15 \text{ gtt/ml}}{1 \text{ min}} = 1500 \text{ gtt/min}$$

#### EXAMPLES

Order: Administer 100 mg po of baclofen. The nurse has 50mg tablets. How much dose she will administer?

$$\frac{1 \text{ tablet}}{50 \text{ mg}} \times \frac{100 \text{ mg}}{50 \text{ mg}} = 2 \text{ tablets}$$

Order: Administer 0.5 mg/kg for a child weighing 100 lbs. How much dose will be administered?

Order: Administer 10 mg/kg for the child. The medication is 100 mg/ml. How much dose will be administered by nurse?

#### ABBREVIATIONS AND TERMS

stat = immediately  
 bid = Twice a day  
 tid = Three a day  
 qid = Four times a day  
 q = every  
 q2h = every 2 hrs  
 q4h = every 4 hrs  
 q6h = every 6 hrs  
 prn = as needed  
 ac = before meals  
 pc = after meals  
 po = By Mouth  
 pr = per rectum  
 prn = per rectum  
 tid = TID  
 cap = Capsule  
 sup = Suppository

# Medical Assistant Dosage Calculation And Lables

**Katrin Zwirglmaier**



## **Medical Assistant Dosage Calculation And Lables:**

## The Enigmatic Realm of **Medical Assistant Dosage Calculation And Lables**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Medical Assistant Dosage Calculation And Lables** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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