

DOSAGE CALCULATION

Printable PDF

DOSAGE CALCULATION

CONVERSIONS

1 kg = 1000 lbs
 1000 g = 1 kg
 1000 mg = 1 g
 1000 micrograms = 1 mg
 1000 ml = 1 litre
 1 fl oz = 16 oz
 1 fl oz = 2 cups
 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

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

Example

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

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

LIQUID DOSAGE CALCULATION

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

Solve:

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

5 ml of erythropoietin will be administered

INJECTIBLE DOSAGE CALCULATION

Order: Administer 10mg of Benzolol every 4 hrs
The available dose of Benzolol is 10mg/ml

Solve:

$$\frac{1 \text{ ml}}{10 \text{ mg}} \times \frac{10 \text{ mg}}{1} = 1 \text{ ml}$$

WEIGHT BASED DOSAGE CALCULATION

Order: Administer Amoxicillin 40mg/kg in 2 doses
The available dose of Amoxicillin is 400mg/5ml
Weight of patient is 10 kg

To calculate the dose to be given to a child weighing 10 kg first calculate the dose to be given in mg

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{10 \text{ kg}}{1} = 400 \text{ mg}$$

Divide the dose with frequency $\frac{400 \text{ mg}}{2} = 200 \text{ mg}$

IV FLOW RATE

IV Flow ml/hr

Order: Administer 1,000ml of 0.9% in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{1000 \text{ ml}}{1000 \text{ ml}} = \frac{1000 \text{ ml}}{10 \text{ hrs}}$$

IV Flow gtt/hr

Order: Administer 1,000ml of 0.9% in 10 hours (drip chamber 15 gtt/ml)

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Drip}}{\text{Time}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{15 \text{ gtt/ml}}{1} = 150 \text{ gtt/hr}$$

EXAMPLES

Order: Administer 100 mg po of Ibuprofen. The nurse has 100mg/5ml suspension. How much dose she will administer?

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

Order: Administer 0.5 mg/kg for a child weighing 10 kg. 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
 gr = per rectal
 tid = TID
 cap = Capsule
 susp = Suspension

Nurses Dosage Calculator

Wenbin Ji

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Nurses Dosage Calculator:

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