

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 litre
 1 fl oz = 30 ml
 1 tsp = 5 ml
 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

$$\frac{\text{Quantity Available}}{\text{Dose Available}} \times \frac{\text{Desired Dose}}{1} = \text{X}$$

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 50mg of Remedol every 6 hrs.
The available dose of Remedol is 100mg/ml

Solve:

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

WEIGHT BASED DOSAGE CALCULATION

Order: Administer Amoxicillin 40mg/kg in 2 doses
The available dose of Amoxicillin is 400mg/5ml
Weight of patient is 30 kg

To calculate the dose to be given to a child weighing 30 kg first calculate the dose to be given in mg

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{30 \text{ kg}}{1} = 1200 \text{ mg}$$

Divide the dose with frequency $\frac{1200 \text{ mg}}{2} = 600 \text{ mg}$

IV FLOW RATE

IV Flow ml/hr

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

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

IV Flow gtt/min

Order: Administer 1,000ml of 0.9% 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?

$$\frac{1 \text{ Tablet}}{50 \text{ mg}} \times \frac{100 \text{ mg}}{1} = 2 \text{ Tablets}$$

Order: Administer 0.5 mg/kg for a client weighing 30 lbs. How much dose will be administered?

Order: Administer 10 mg/kg for the client. The medication is 50 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

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Tao Wei



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