

DOSAGE CALCULATION

Printable PDF

DOSAGE CALCULATION

CONVERSIONS

1 kg = 1000 lbs
 1000 g = 1 kg
 1000 mg = 1 g
 1000 micrograms = 1 mg
 1000 ul = 1 L

1 fl oz = 16 ul
 1 fl oz = 30 ml
 1 oz = 30 ul
 1 ul = 1 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

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

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 Benzolad every 4 hrs.
The available dose of Benzolad 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 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 0.9% in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{1000 \text{ ml}}{10 \text{ hours}} = 100 \text{ ml/hr}$$

IV Flow gtt/min

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

$$\frac{\text{Volume}}{\text{Time}} \times \frac{1000 \text{ ml}}{10 \text{ hours}} \times \frac{15 \text{ gtt/ml}}{1} = 150 \text{ gtt/min}$$

EXAMPLES

Order: Administer 100 mg po of Ibuprofen. The nurse has 200mg tablets. How much dose she will administer?

$$\frac{1 \text{ tablet}}{200 \text{ mg}} \times \frac{100 \text{ mg}}{1} = 0.5 \text{ tablet}$$

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 100mg/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
 q6h = every 6 hrs
 q8h = every 8 hrs
 q12h = every 12 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

Medication Calculations Exam Print

Zhe Xu



Medication Calculations Exam Print:

Medication Calculations Exam Print Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Medication Calculations Exam Print**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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