

MEDICATION DOSAGE AND CALCULATIONS

LIQUID

1 oz = 30mL
 1 oz = 2 Tbsp
 1 Tbsp = 3 tsp
 1 Tbsp = 15mL
 1 tsp = 5mL
 8oz = 1 cup
 1 pint = 16oz

SOLID

1 kg = 2.2 lb.
 1 in = 2.54 cm

TIME

min → hr (÷ by 60)
 hr → min (x by 60)

MASS

mcg → mg → g → kg (÷ by 1000)
 mcg ← mg ← g ← kg (x by 1000)
 lb. → kg (÷ by 2.2)
 kg → lb. (x by 2.2)

VOLUME

mcl → ml → L → kl (÷ by 1000)
 mcl ← ml ← L ← kl (x by 1000)
 1 mL = 1 cc
 1 mL = 15 gtts

TIP: When you hear the word "gram" think of pennies (smaller units) and when you hear "kilogram" think of a dollar bill (larger unit). 100 pennies fit into a dollar bill, so think about grams fitting into kilograms also grams are smaller than kilograms. We can also think that kilograms are bigger than grams because we weight adults in kilograms and that's heavy.

COMMON CALCULATIONS

BASIC CALCULATIONS:

$\frac{\text{ordered}}{\text{available}} \times \text{volume} = \text{dose}$

TABLET DOSAGES:

$\frac{\text{desired dosage}}{\text{available}} = \# \text{ of tablets}$

MIXTURES AND SOLUTIONS: (bolus or push)

$\frac{\text{desired dosage}}{\text{available}} \times \text{stock volume} = \text{amount of solution given}$

IV RATE:

1. mL per hr or min → $\frac{\text{total IV volume}}{\text{total time (hr or min)}} = \text{mL/hr or min}$

2. gtt/min → $\frac{\text{total IV volume}}{\text{time (minutes)}} \times \text{drop factor} = \text{gtt/min}$

Drop factor
will be given

3. Remaining time of infusion → $\frac{\text{volume remaining (mL)}}{\text{gtt}} \times \text{drop factor} = \text{minutes remaining}$

4. Flow rate → $\frac{\text{ordered per hour}}{\text{medication available}} \times \text{volume (mL)} = \text{mL/hr}$

5. Flow rate → $\frac{\text{ordered per hour} \times \text{kg}}{\text{medication available}} \times \text{volume (mL)} = \text{mL/hr}$

KEY: This formula is for hours. If you are given minutes, simply multiply by 60

Medication Dosage Quiz

Terry C. Jones

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

Medication Dosage Quiz:

Medication Dosage Quiz Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Medication Dosage Quiz**, a literary masterpiece that delves deep to the significance of words and their impact 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 is key themes, examine its writing style, and analyze its overall impact on readers.

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