

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

Basic Drug Calculations

Mary Jo Boyer



Basic Drug Calculations:

This book delves into Basic Drug Calculations. Basic Drug Calculations is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Basic Drug Calculations, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Basic Drug Calculations
- Chapter 2: Essential Elements of Basic Drug Calculations
- Chapter 3: Basic Drug Calculations in Everyday Life
- Chapter 4: Basic Drug Calculations in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Basic Drug Calculations. The first chapter will explore what Basic Drug Calculations is, why Basic Drug Calculations is vital, and how to effectively learn about Basic Drug Calculations.
3. In chapter 2, the author will delve into the foundational concepts of Basic Drug Calculations. This chapter will elucidate the essential principles that need to be understood to grasp Basic Drug Calculations in its entirety.
4. In chapter 3, the author will examine the practical applications of Basic Drug Calculations in daily life. The third chapter will showcase real-world examples of how Basic Drug Calculations can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Basic Drug Calculations in specific contexts. The fourth chapter will explore how Basic Drug Calculations is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Basic Drug Calculations. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Basic Drug Calculations.

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