

IV Medication Bolus / Volume to be Administered

This formula is used when administering a specific medication as a single event. This medication administration can be done via IV, SC or IM.

When you are given a volume to administer, make sure all of the units of measure are in the same prefix. After converting all the units to the same prefix, use the following formula:

Formula: IV Medication Bolus / Volume To Be Administered

$$\frac{\text{desired dose} \times \text{volume on hand}}{\text{drug on hand}} = \text{volume to be administered}$$

Example 1:

You are ordered to give 20mg of Cardizem slow IVP. Your vial contains 25mg of the drug in 5mL of solution. How much of the medication should you administer?

Calculate volume to be administered using formula:

$$\frac{20\text{mg} \times 5\text{mL}}{25\text{mg}} = \frac{20\text{mg} \times 5\text{mL}}{25\text{mg}} = \frac{100}{25} = 4 \text{ mL}$$

Example 2:

Administer 1.5 mg/kg of lidocaine IVP to a patient. Your lidocaine is packaged 100mg per 5mL of solution. The patient weighs 160lb. How much of the medication should you administer?

Convert all units to like measurements:

$$160\text{lb} = 72\text{kg} \text{ (160 divided by 2 = 10\% = } 160/2 = 10\% = 80 - 8 = 72)$$

Calculate desired dose:

$$1.5\text{mg} \times 72\text{kg} = 108\text{mg}$$

Calculate volume to be administered using formula:

$$\frac{108\text{mg} \times 5\text{mL}}{100\text{mg}} = \frac{108\text{mg} \times 5\text{mL}}{100\text{mg}} = \frac{540}{100} = 5.40 \text{ mL}$$

Medication Math Problems For Paramedics

C Cleary



Medication Math Problems For Paramedics:

The book delves into Medication Math Problems For Paramedics. Medication Math Problems For Paramedics is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Medication Math Problems For Paramedics, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Medication Math Problems For Paramedics
 - Chapter 2: Essential Elements of Medication Math Problems For Paramedics
 - Chapter 3: Medication Math Problems For Paramedics in Everyday Life
 - Chapter 4: Medication Math Problems For Paramedics in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Medication Math Problems For Paramedics. This chapter will explore what Medication Math Problems For Paramedics is, why Medication Math Problems For Paramedics is vital, and how to effectively learn about Medication Math Problems For Paramedics.
 3. In chapter 2, the author will delve into the foundational concepts of Medication Math Problems For Paramedics. This chapter will elucidate the essential principles that need to be understood to grasp Medication Math Problems For Paramedics in its entirety.
 4. In chapter 3, the author will examine the practical applications of Medication Math Problems For Paramedics in daily life. This chapter will showcase real-world examples of how Medication Math Problems For Paramedics can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Medication Math Problems For Paramedics in specific contexts. This chapter will explore how Medication Math Problems For Paramedics is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Medication Math Problems For Paramedics. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Medication Math Problems For Paramedics.

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