

# MEDICATION MATH CHEAT SHEET

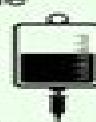
## Weight-Based Dosage Calculations

- Formula:** Dose = (Weight in kg)  $\times$  (Dose ordered per kg)
- Conversion:** 1 kg = 2.2 lbs
- Pediatric Dosage Formula:** (Weight in kg)  $\times$  (Safe Dose Range per kg)
- Safety Tip:** Double-check for pediatric and geriatric patients



## IV Drug Calculations

- Flow Rate Formula:** mL/hr = Total Volume (mL)  $\div$  Time (hr)
- Drop Rate Formula:** gtt/min = (Total Volume  $\times$  Drop Factor)  $\div$  Time (min)
- Infusion Time:** Time (hr) = Total Volume  $\div$  Flow Rate (mL/hr)
- Safety Tip:** Monitor for signs of infiltration and adverse reactions



## Injection Calculations

- Formula:** Dose = (Desired Dose  $\div$  Available Dose)  $\times$  Volume
- Example:** Ordered 100 mg, Available 50 mg/mL  $\rightarrow$   $(100 \div 50) \times 1 = 2 \text{ mL}$
- Insulin Calculation:** (Blood Sugar - Target Blood Sugar)  $\div$  Sensitivity Factor
- Safety Tip:** Verify medication concentration and route (IM, SubQ, IV)



## Tablet/Pill Dosage Calculations

- Formula:** Tablets Needed = Dose Ordered  $\div$  Dose Available
- Divided Dose Formula:** Total Daily Dose  $\div$  Number of Doses per Day
- Safety Tip:** Confirm pill strength and avoid crushing unless indicated



## Rounding Guidelines

- Round to the nearest tenth for liquids (e.g., 2.76 mL  $\rightarrow$  2.8 mL)
- Round to the nearest whole number for tablets (e.g., 1.4 tablets  $\rightarrow$  1 tablet)
- IV Rates: Round to the nearest whole number unless specified otherwise

## Liquid Medication Calculations

- Formula:** Volume Needed = (Desired Dose  $\div$  Available Dose)  $\times$  Available Volume
- Pediatric Liquid Dosage:** (Weight in kg)  $\times$  (Safe Dose Range per kg)  $\div$  Frequency
- Safety Tip:** Use calibrated devices for accurate measurement



## Important Formulas

- Desired Dose  $\div$  Available Dose  $\times$  Quantity = Amount to Administer
- mg/kg/day = Total Daily Dose Based on Weight
- IV Push Rate = Total mL  $\div$  Recommended Time (min)



## Key Conversions

- 1 tsp = 5 mL
- 1 tbs = 15 mL
- 1 oz = 30 mL
- 1 kg = 2.2 lbs
- 1 L = 1000 mL
- 1 grain = 60 mg



## Abbreviations

- BID = Twice a day
- TID = Three times a day
- QID = Four times a day
- PRN = As needed
- AC = Before meals
- PC = After meals

## Safety Reminders

- Always double-check calculations and medication orders
- Document time, dose, route, and patient response accurately
- Confirm patient allergies before administration
- Label all syringes and IV lines properly



# Pediatric Medications And Dosages Math Study Guide

**Theodora Andrews**

## **Pediatric Medications And Dosages Math Study Guide:**

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**Programmed Mathematics of Drugs and Solutions** Virginia Poole

Arcangelo,1999 This work can be used as a self paced introduction to the mathematics of drug dosages or as a quick refresher a hands on guide that aims to deliver everything needed to build up dosage calculation skills Organized for self assessment the text s 14 chapters move from simple to complex material covering basic arithmetic the metric and household systems of measurement and their equivalents and correct interpretation of drug labels Calculation exercises cover basic oral dosing parental and intravenous medications and finally the delicate area of paediatric dosing

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*Calculation of Drug Dosages* Caroline Peterson Janney,Jane Flahive,1996      Calculation of Drug Dosages Sheila J. Ogden,2003 This popular dosage calculation work text helps students master the critical skills necessary to competently and confidently calculate drug dosages Innovative and practical it includes information on the ratio and proportion formula and dimensional analysis methods of drug calculation and numerous practice problems to accompany these methods Ideal for students who need an extensive math review in addition to drug calculations content this new edition features a more logical organization a new chapter addressing medication administration to critically ill patients and more practice problems on calculations for pediatric patients      The Journal of Practical Nursing ,1988      Dosage and Solutions Calculations Alice J. Smith,1989      **Managing Attention Disorders in Children** Sam Goldstein,Michael Goldstein,1990-01-22 Presents practitioners with a comprehensive guide for understanding attention deficit hyperactivity disorder a complex affliction characterized by inattention overarousal hyperactivity and impulsivity Includes a comprehensive overview of the problems encountered by children as well as approaches to school intervention Examines all aspects of evaluation and treatment and offers a model for assessment and a well defined set of guidelines for multidisciplinary treatment services for children with attention disorder and their families Also provides a guide for the prescription and management of medications

**McGraw-Hill's NAPLEX Review Guide** S. Scott Sutton,2012-09-01 Everything you need to pass the NAPLEX comprehensive study material and two practice exams in one student reviewed package Written by an instructor who has taught thousand of students this all in one study guide was developed and reviewed by pharmacists faculty students and recent graduates so you know it contains only the most relevant up to date content You ll find valuable foundational material and chapter ending case application questions that cover every key topic included on the NAPLEX Two downloadable practice tests with a total of 370 questions allowing you to pinpoint your weaknesses Includes Coverage that is organized around the NABP competencies and designed to sharpen problem solving skills put must know information at your fingertips and improve exam taking ability More than 1400 case application questions each with a detailed explanation of both correct and incorrect answer choices Takeaway Points at the end of every chapter that summarize key concepts Two complete downloadable practice tests each with 185 questions      *Directory of Educational Software* Christine Bolwell,1993

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