

DOSAGE CALCULATION

Printable PDF

DOSAGE CALCULATION

CONVERSIONS

1 kg = 1000 lbs
 1000 µg = 1 mg
 1000 mg = 1 g
 1000 micrograms = 1 mg
 1000 ml = 1 litre
 1 fl oz = 16 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

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

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 Remicade every 4 hrs.
The available dose of Remicade 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 30 kg
 To calculate the dose to be given to a child weighing 30 kg first calculate the dose to be given in mg

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{30 \text{ kg}}{1} = 1200 \text{ mg}$$

Divide the dose with frequency $\frac{1200 \text{ mg}}{2} = 600 \text{ mg}$

IV FLOW RATE

IV Flow ml/hr

Order: Administer 1,000ml of 0.9% in 10 hours

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

IV Flow gts/min

Order: Administer 1,000ml of 0.9% in 10 hours (infusion)
Drop Factor 15 gts/ml

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Drop}}{\text{ml}} \times \frac{1000 \text{ ml}}{10 \text{ hrs}} = 15 \text{ ml/hr}$$

EXAMPLES

Order: Suspension 100 mg per 5ml solution. The nurse has 100mg/5ml. How much dose she will administer?

$$\frac{100 \text{ mg}}{5 \text{ ml}} \times \frac{100 \text{ mg}}{100 \text{ mg}} = 10 \text{ ml}$$

Order: 0.5 mg/kg for a child weighing 30 lbs. How much dose will be administered?

Order: 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
 qhs = every 8 hrs
 qid = every 4 hrs
 qhs = every 8 hrs
 prn = as needed
 ac = before meals
 pc = after meals
 qd = Every day
 qm = given morning
 qn = given night
 qd = given daily
 tid = 3 times a day
 cap = Capsule
 sup = Suppository

Nurses Dosage Calculator

**Susan Sienkiewicz, Sandra
Megerdichian**



Nurses Dosage Calculator:

Dosage Calculations for Nursing Students Nurse Academy, 2021-01-06 This is the official textbook on dosage calculations for nursing students created by Nurse Academy Looking for the best dosage calculation book on Amazon Look no further For those struggling with basic and more complex nursing calculations this is an essential text This book represents a significant change in Nursing Practices with chapters being rearranged and consolidated It is also designed to help nursing students to practice the math relevant to administering drugs in the normal course of a drug round As much as it is not designed to be difficult it will make students think The list of decimals fractions and percentages given in the book are something you must learn Most nurses and practitioners have already covered this at school The book has employed the CASE approach which is a step by step method for performing dosage calculations drawn by the author from extensive experience across the continuum of care to bring a truly informative and dynamic resource to the readers The book is presented in an order which follows a logical and sequential tract Examples are offered and each chapter is interspersed with exercises for the reader to test their understanding The review of Basic Calculations has been well revised with more explanations and elaborations included in the worked examples The three methods of dosage calculation are presented side by side in table format for every dosage calculation updated chapter references updated content for dosing and safe injection practices per CDC Guidelines and the Joint Commission New information on heparin dosage protocol to reflect clinical environment practices has also been included The chapters are devoted to the review of basic calculations dosages of oral medications drug doses for injection intravenous infusion and pediatric doses This is a very useful book for nursing students who often wrestle with the complexities and nuances of drug calculation and administration It works well as either a reference or as a read through I would not recommend reading this book in one sitting otherwise numbers facts and figures will begin to blur into one Throughout the book drug dosages have been revised and updated It must be noted that the aim of Nursing Calculations is to teach relevant skills in arithmetic and this book is not meant to be used as a pharmacology reference We look forward to your feedback Nurse Academy

Dosage Calculations for Nursing Students Nurse Academy, 2021-01-22 This is the official textbook on dosage calculations for nursing students created by Nurse Academy Looking for the best dosage calculation book on Amazon Look no further For those struggling with basic and more complex nursing calculations this is an essential text This book represents a significant change in Nursing Practices with chapters being rearranged and consolidated It is also designed to help nursing students to practice the math relevant to administering drugs in the normal course of a drug round As much as it is not designed to be difficult it will make students think The list of decimals fractions and percentages given in the book are something you must learn Most nurses and practitioners have already covered this at school The book has employed the CASE approach which is a step by step method for performing dosage calculations drawn by the author from extensive experience across the continuum of care to bring a truly informative and dynamic resource to the readers The book

is presented in an order which follows a logical and sequential tract Examples are offered and each chapter is interspersed with exercises for the reader to test their understanding The review of Basic Calculations has been well revised with more explanations and elaborations included in the worked examples The three methods of dosage calculation are presented side by side in table format for every dosage calculation updated chapter references updated content for dosing and safe injection practices per CDC Guidelines and the Joint Commission New information on heparin dosage protocol to reflect clinical environment practices has also been included The chapters are devoted to the review of basic calculations dosages of oral medications drug doses for injection intravenous infusion and pediatric doses This is a very useful book for nursing students who often wrestle with the complexities and nuances of drug calculation and administration It works well as either a reference or as a read through I would not recommend reading this book in one sitting otherwise numbers facts and figures will begin to blur into one Throughout the book drug dosages have been revised and updated It must be noted that the aim of Nursing Calculations is to teach relevant skills in arithmetic and this book is not meant to be used as a pharmacology reference We look forward to your feedback Nurse Academy Dosage Calculations for Nursing Students Chase Hassen,Bradley J Wojcik,2019-05-11 Welcome to the second edition of our dosage calculations book Are you a nursing student or nurse who wants to learn a few simple methods of solving dosage calculations without a bunch of formulas Would you like to raise your hand in your dosage calculation class after the instructor explains a complicated formula and ask to approach the white board to show the class a much simpler method Do you want to go on your clinicals knowing that you have a solid foundation in dosage calculations Do you want to walk into your Nursing Calculations Class on the first day knowing that you can ace all the tests before the course begins If you answered yes to any of these questions this book is for you The book is divided into seven units containing thirty five chapters Unit 1 Essential Skills You can t learn to drive a car if you don t understand the function of the steering wheel The same applies to the following subjects when learning dosage calculations The Metric System Apothecary Avoirdupois Household Systems Ratios Dimensional Analysis DA and Ratio Proportion RP Rounding Numbers Military Time Unit 2 Auxiliary Subjects Roman Numerals Scientific Notation Unit 3 Unit Conversions Unit 3 covers converting between and within the various systems of measurement using dimensional analysis and ratio proportion Unit conversions Within the Metric System Unit Conversions Within the Household System Unit Conversions Between Metric Household and Apothecary Systems Unit Conversions Involving Pounds and Ounces Unit Conversions Involving Hours and Minutes Unit 4 Dosage Calculations Unit 4 builds on the knowledge gained in the previous units and covers dosage calculations starting with the terminology and set up of problems then progressing from easy one step problems through multi step problems Dosage Calculations The Basics Dosage Calculations Levels 1 3 Body Surface Area Dosing Calculations Pediatric Dosage Calculations Pediatric Maintenance Fluid Replacement Calculations Unit 5 IV Flow Rate Calculations Unit 5 starts with the basic terminology and set up of IV flow rate problems then moves on to Simple

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A Nurse's Guide to Dosage Calculation Vicki Niblett, 2006 This dosage calculations textbook is designed expressly for use in Canadian schools of nursing It teaches three methods of dosage calculation ratio and proportion cross multiplying of fractions and formula using the SI Unit system of measurement Plentiful sample questions from across nursing care settings

with clear use of the three calculation approaches give students immediate opportunity to practice each step taught Canadian drug trade names are used throughout the text The book includes self tests to help students identify areas that require further practice Make a Note boxes reinforce underlying theory Keep It Safe boxes emphasize important elements of safe practice

Roach's Introductory Clinical Pharmacology Susan M. Ford, Sally S. Roach, 2010 This core text offers LPN LVN students a clear concise introduction to pharmacology focusing on basic principles and the nurse's responsibility in drug administration Organized by body system the book examines pharmacologic properties and therapeutic applications of drug classes Summary Drug Tables present generic and trade drug names uses adverse reactions and usual dosage ranges This edition has thoroughly updated drug information a new Pharmacology in Practice case study feature Nursing Alerts Lifespan Alerts Chronic Care Alerts Diversity Alerts and additional material on the nursing process Including a FREE copy of Lippincott's Photo Atlas of Medication Administration a bound CD ROM a companion website includes an NCLEX alternate item format tutorial a Spanish English audio glossary monographs on 100 most commonly prescribed drugs Listen and Learn Concepts in Action animations Watch and Learn video clips and Dosage Calculation Quizzes The full text is also available online Online Tutoring powered by Smarthinking Free online tutoring powered by Smarthinking gives students access to expert nursing and allied health science educators whose mission like yours is to achieve success Students can access live tutoring support critiques of written work and other valuable tools

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Clinical Dosage Calculations Vanessa Brotto, Kate Rafferty, 2019-11-18 Clinical Dosage Calculations is a locally written full colour text covering the important aspects of dosage calculations that students require to perform this essential part of clinical practice An applied skills focused text Brotto uses real life cases worked examples and real medication charts and labels to engage students Using a scaffolded approach to learning the text starts with fundamental maths and familiarises students with medication charts and labels then moves on to specialist area chapters allowing learners to deepen their skills in a clinical context Students engage in the activities of each chapter as an introduction to the concept before moving onto the final chapter where they can test their overall knowledge

Medical Dosage Calculations For Dummies Vanessa DePuente, Richard Snyder, Barry Schoenborn, 2026-01-06 An accurate and easy to read resource for students in medical dosage calculation classes Medical Dosage Calculations For Dummies 2nd Edition is an accurate guide to dosage calculation that tracks to standard course curricula It's an easy to follow supplementary resource for students of nursing pharmacology paramedic programs and beyond walking you through ratio proportion formula and dimensional analyses for a wide variety of medication types You'll learn how medications are given to whom and how to chart accurately

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Made Incredibly Easy! Lippincott Williams & Wilkins,2015-09-24 Dosage Calculations Made Incredibly Easy contains everything health care practitioners need to review and students need to learn about calculating drug dosages This entertaining and informative reference reviews the basic math needed to perform dosage calculation including fractions decimals percentages ratios and proportions It walks the nurse through the interpretation of hundreds of examples of drug orders and the performance of hundreds of complex dosage calculations and provides information on deciphering difficult abbreviations dealing with unclear handwriting reading medication labels selecting administration equipment and more

Dosage Calculations Made Incredibly Easy! Kimberly Giddings,2024-08-19 Designed to help health care professionals who are looking for a simple step by step approach to math calculations Dosage Calculations Made Incredibly Easy 6th edition is a fully illustrated guide that offers the complete how to on calculating dosages for all drug forms and administration routes **Dosage Calculation Practices for Nurses** Bonita Broyles,2009-10-02 Raise your confidence

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learning product or to refresh your skills for a return to the clinical setting Clinical Nursing Calculations Susan Sienkiewicz,Sandra Megerdichian,2024-02-13 Clinical Nursing Calculations Third Edition is an essential text for teaching dosage calculation to undergraduate nursing students The text employs the CASE approach which is a step by step method for performing dosage calculations The author team draws from extensive experience across the continuum of care to bring readers a truly informative and dynamic resource Clinical Nursing Calculations has been expertly organized into four sections for easy navigation Mathematics Overview Principles of Medication Administration Basic Dosage and Intravenous Calculations and Advanced Calculations In addition to clinical calculation coverage the text also features expanded content on nutrition insulin calculations and the legal implications of medication administration The Joint Commission and the Institute for Safe Medication Practice guidelines regarding safe medication administration are also featured To facilitate learning students will find examples in both electronic medication administration record eMAR and electronic health record

format This text can be used as a primary text for a dosage calculations course or as a supplemental text within a nursing program or pharmacology course **Medical Dosage Calculations For Dummies** Richard Snyder, Barry

Schoenborn, 2011-05-09 Score your highest in a medical dosage calculations course A recent shortage of nurses in a society with an aging population has triggered the demand for students to enter the field of medical study A dosage calculations course is required for most students earning an applied science degree in nursing pharmacology or paramedic programs Medical Dosage Calculations For Dummies tracks a typical dosage calculations course and provides helpful content in an approachable and easy to understand format Plus you ll get examples of the various calculations made to determine the appropriate quantity of drug or solution that should be administered to patients Calculating drug dosages utilizing ratio proportion formula and dimensional analysis Systems of measurement including metric and apothecary and other conversion equivalents for a global audience The ins and outs of the charting systems for MAR Medicine Administration Records If you re one of the hundreds of thousands of students aspiring to enter the medical field Medical Dosage Calculations For Dummies is your ticket for scoring your highest on exams *Clinical Nursing Calculations with Navigate Advantage Access*

Susan Sienkiewicz, Sandra Megerdichian, 2024-02-13 Accurate dosage calculation is essential for all nurses to master It is crucial to equip students with the right tools to build a strong foundation and establish lifelong confidence in calculation and maintaining patient safety The updated Clinical Nursing Calculations Third Edition empowers students with the confidence and skills to safely calculate the right medication dosage to their patients Drawing from their extensive experience across the continuum of care the authors employ the CASE approach Convert Approximate Solve Evaluate for performing dosage calculations while presenting side by side comparisons of all three methods of calculation This systematic step by step approach accounts for students different learning styles whether they prefer to utilize the Ratio Proportion Formula Method or Dimensional Analysis method of calculation **Clinical Nursing Calculations** Sienkiewicz, Jennifer F.

Palmunen, 2015-09-08 Clinical Nursing Calculations is an essential text for teaching dosage calculation to undergraduate nursing students The text employs the CASE approach which is a step by step method for performing dosage calculations Important Notice The digital edition of this book is missing some of the images or content found in the physical edition

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Table of Contents Nurses Dosage Calculator

1. Understanding the eBook Nurses Dosage Calculator
 - The Rise of Digital Reading Nurses Dosage Calculator
 - Advantages of eBooks Over Traditional Books
2. Identifying Nurses Dosage Calculator
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nurses Dosage Calculator
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nurses Dosage Calculator
 - Personalized Recommendations
 - Nurses Dosage Calculator User Reviews and Ratings

- Nurses Dosage Calculator and Bestseller Lists
- 5. Accessing Nurses Dosage Calculator Free and Paid eBooks
 - Nurses Dosage Calculator Public Domain eBooks
 - Nurses Dosage Calculator eBook Subscription Services
 - Nurses Dosage Calculator Budget-Friendly Options
- 6. Navigating Nurses Dosage Calculator eBook Formats
 - ePub, PDF, MOBI, and More
 - Nurses Dosage Calculator Compatibility with Devices
 - Nurses Dosage Calculator Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nurses Dosage Calculator
 - Highlighting and Note-Taking Nurses Dosage Calculator
 - Interactive Elements Nurses Dosage Calculator
- 8. Staying Engaged with Nurses Dosage Calculator
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nurses Dosage Calculator
- 9. Balancing eBooks and Physical Books Nurses Dosage Calculator
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nurses Dosage Calculator
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nurses Dosage Calculator
 - Setting Reading Goals Nurses Dosage Calculator
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nurses Dosage Calculator
 - Fact-Checking eBook Content of Nurses Dosage Calculator
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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