

DOSAGE CALCULATION

Printable PDF

DOSAGE CALCULATION

CONVERSIONS

1 kg = 1000 lbs
 1000 g = 1 kg
 1000 mg = 1 g
 1000 micrograms = 1 mg
 1000 ul = 1 liter
 1 fl oz = 16 oz
 1 fl oz = 2 cups
 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 Benadryl every 4 hrs
The available dose of Benadryl is 10mg/ml

Solve:

$$\frac{1 \text{ ml}}{10 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 5 \text{ ml}$$

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 D5W in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{60 \text{ min}}{1 \text{ hr}} = 6000 \text{ ml/hr}$$

IV Flow gtt/hr

Order: Administer 1,000ml of D5W in 10 hours (drip chamber)
Drop Factor 15 gtt/ml

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Drop Factor}}{1 \text{ ml}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{15 \text{ gtt}}{1 \text{ ml}} = 1500 \text{ gtt/hr}$$

EXAMPLES

Order: Administer 100 mg po of Benadryl. The nurse has 50mg/ml. How much dose she will administer?

$$\frac{1 \text{ ml}}{50 \text{ mg}} \times \frac{100 \text{ mg}}{1} = 2 \text{ ml}$$

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

Order: Administer 10 mg/kg for the child. The medication is 100 mg/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
 q1h = every 1 hr
 q2h = every 2 hr
 q3h = every 3 hr
 q4h = every 4 hr
 q6h = every 6 hr
 q8h = every 8 hr
 q12h = every 12 hr
 prn = as needed
 ac = before meals
 pc = after meals
 qd = Every day
 qn = every night
 qo = every other
 qw = every week
 qm = every month
 qy = every year
 tid = Three times a day
 cap = Capsule
 sup = Suppository

Nurses Dosage Calculator

Bonita E. Broyles

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.

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

and Advanced Problems IV Flow Rate Adjustment Calculations Heparin Infusion and Adjustment Calculations Unit 6 Percent and Ratio Strength Calculations Percent Percent Strength Percent Change Ratio Strength Unit 7 Miscellaneous Subjects Reconstitution Calculations Concentrations and Dilutions Milliequivalent Calculations Dosage Calculations Puzzles Self Assessment Exam The book contains over 600 high quality practice problems with answers We look forward to your feedback Chase Hassen and Brad Wojcik Math For Nurses Mary Jo Boyer, 2019-09-16 Quickly Access Everything You Need to Calculate Dosages Effectively and Ensure Accurate Drug Delivery Current compact and easy to use Math for Nurses helps you perfect the basic math skills measurement systems and drug calculations preparations essential to successful nursing practice Packed with real clinical examples and practice problems this pocket sized reference guides you step by step through the problem solving and practical applications required in the nursing workplace A handy pull out quick reference card delivers fast access to basic equivalents conversion factors and math formulas Comprehensive dosage calculation coverage familiarizes you with ratio proportion formula and dimensional analysis methods of arriving at calculations Practice problems throughout the text and review questions at the end of each chapter and unit test your retention and application capabilities 300 additional Practice Problems and Answers available online through thePoint further enhance learning and retention Learning Objectives focus your study and review on essential concepts and practices Critical Thinking Checks help you analyze your results to dosage problems and ensure understanding of key content **Nursing Dosage Calculation Workbook: 24 Categories of Problems from Basic to Advanced!** Chase Hassen, Bradley J. Wojcik, 2019-03-10 Are you a nursing student or nurse who has the basics of dosage calculations down and wants to take your abilities to the next level If so this book is for you Although his book is intended to be used as an advanced workbook supplement to Wojcik B Hassen C 2018 Dosage calculations for nursing students Master dosage calculations in 24 hours the safe easy way without formulas ISBN 9781725638839 it will benefit anyone who has a basic knowledge of dosage calculations The book s 777 problems cover 24 categories from basic unit conversions to complex critical care calculations The answers to the problems are explained primarily using dimensional analysis This book is organized into the following six units Unit 1 Basic Math Problems and Military Time Rounding Numbers Roman Numerals Scientific Notation Military Time Unit 2 Conversions Unit Conversions Within the Metric System Unit Conversions Within the Household System Unit Conversions Between the Metric Household and Apothecary Systems Unit 3 Dosage Calculations Dosage Calculations Level 1 Dosage Calculations Level 2 Dosage Calculations Level 3 Body Surface Area Dosing Calculations Pediatric Dosing Calculations Pediatric Maintenance Fluid Replacement Calculations Unit 4 IV Flow Rate Calculations IV Flow Rate Calculations Level 1 IV Flow Rate Calculations Level 2 IV Flow Rate Adjustment Calculations Heparin Infusion and Adjustment Calculations Unit 5 Percent and Ratio Strength Calculations Percent Percent Strength Percent Change Ratio Strength Unit 6 Miscellaneous Subjects Reconstitution Calculations Conversions Between mg and mEq Dosage Calculation Puzzles Self Assessment Exam List of Abbreviations and

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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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