

DOSAGE CALCULATION

Conversions:

- 1 kg = 2.2 lbs
- 1 mg = 1,000 mcg
- 1 g = 1,000 mg
- 1 oz = 30 mL
- 1 L = 1,000 mL
- 1 tsp = 5 mL
- 1 tbsp = 15 mL
- 1 tbsp = 3 tsp

Rounding:

- Less than .5 = round to nearest whole
- Greater than .5 = round to nearest tenth

Dimensional Analysis:

- **Given:** 60mg acetaminophen q 6 hrs PRN
- **Available:** 300mg tablets

1. Determine the unit that you are calculating.
• Tablets
2. Determine the quantity available.
• 300 mg
3. Determine the dose available.
• 300 mg
4. Determine the desired dose.
• 600 mg
5. Do you need to convert units?
• No
6. Set up the problem and solve.

$$\frac{\text{Quantity}}{\text{Available dose}} \times \frac{\text{Desired dose}}{1} = \frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ tablets}$$

Solid Dosages:

- **Given:** Penicillin 600mg PO 3 times a day
- **Available:** 300mg tablets
- **Question:** how many tablets per dose?

$$\frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ Tablets}$$

Liquid Dosages:

- **Given:** 60mg Penicillin PO daily
- **Available:** Penicillin 300mg per 5mL
- **Question:** how many mL should be administered?

$$\frac{3 \text{ mL}}{300 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 0.6 \text{ mL}$$



Injectable Dosages:

- **Given:** Benzathine 60mg IM Four times day
- **Available:** Benzathine 60mg per mL
- **Question:** how many mL will be administered?

$$\frac{1 \text{ mL}}{60 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 1 \text{ mL}$$



Weight-Based Dosages:

- **Given:** Amoxicillin 40mg/kg body weight once a day
- **Available:** Amoxicillin suspension 400mg/5mL
- **Question:** how many mL given per dose for a 22lb child?

1. Convert lb to kg: $22 \text{ lb} \div 2.2 = 10 \text{ kg}$
2. Calculate dose in mg: $40 \text{ mg/kg} \times 10 \text{ kg} = 400 \text{ mg}$
3. Divide dose by frequency: $400 \text{ mg} \div 1 = 400 \text{ mg per dose}$
4. Convert mg to mL:

$$\frac{5 \text{ mL}}{400 \text{ mg}} \times \frac{400 \text{ mg}}{1} = 5 \text{ mL per dose}$$

IV Flow Rate with Electronic Pump:

- **Given:** 600 mL of D5W in 8 hours

$$\frac{\text{Volume}}{\text{Time}} = \text{Rate} \quad \frac{600 \text{ mL}}{8 \text{ hours}} = 75 \text{ mL/hr}$$

Manual IV Infusions:

- **Given:** 1000mL to be infused over 6 hours
- **Question:** how many grams of the drug Factor is 15 g/mL?

$$\frac{\text{Volume}}{\text{Time (hr)}} \times \frac{\text{Drug}}{\text{Factor}} = \frac{1000 \text{ mL}}{6 \text{ hr}} \times \frac{15 \text{ g}}{100 \text{ mg}} = 25 \text{ grams}$$

Nursing Calculations

Meta Brown, Joyce L. Mulholland

Nursing Calculations:

Clinical Nursing Calculations Susan Sienkiewicz,Sandra Megerdichian,2019-09-27 Clinical Nursing Calculations is an essential text for teaching dosage calculation to undergraduate nursing students [Nursing Calculations E-Book](#) John D. Gatford,Nicole M. Phillips,2016-05-18 This internationally renowned guide to basic arithmetic for nursing students has been completely revised and updated for a new generation of readers Now entering its ninth edition Nursing Calculations comes with a quick reference card fits in the pocket to remind readers of essential formulae and AN ON LINE PROGRAM TO ALLOW FURTHER SELF TESTING VIA THE USE OF COMPUTERS AND MOBILE DEVICES Over 200 000 copies sold since publication Initial self testing chapter allows readers to identify and address areas of difficulty before moving onto practical examples Important Boxes highlight potential pitfalls for the reader Special section on paediatrics covers medication calculations relating to body weight and body surface area Contains glossary and useful abbreviations Brings together basic math skills and clinical examples to prepare readers for real life drug calculations Quick reference card fits in the pocket and remind readers of essential formulae Questions have been revised and updated when necessary to reflect current practice New material includes the use of medication charts in questions that involve medication labels Additional worked examples facilitate understanding of the 24 hour clock Contains a new revision chapter to help consolidate learning NOW COMES WITH AN ON LINE PROGRAM TO ALLOW FURTHER SELF TESTING VIA THE USE OF MOBILE DEVICES **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

Nursing Calculations and IV Therapy For Dummies - UK Claire Boyd,2016-03-21 The fast and easy way to pass the Nursing Calculations test Is the maths behind the medicine making you maudlin over taking your Nursing Calculations test You ve come to the right place Written by a nurse with countless hours of experience and who trains other nurses every day this plain English no nonsense guide to nursing calculations and IV therapy makes it easier to come to grips with the numbers and formulas you ll encounter on the day of the exam and in the field Many students and practising nurses struggle with mathematics Luckily this friendly guide is here to take the intimidation out of the subject arming you with the knowledge and know how you need to take the exam with confidence and to achieve the best score possible From fractions

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Passing Calculations Tests in Nursing Susan Starkings,Larry Krause,2018-01-15 This book helps new students succeed first time in nursing calculations tests It takes the fear out of maths even for those who find it a struggle through clear step by step explanations and lively examples from the real world of nursing practice

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dosage calculation and drug administration The author uses a step by step approach with frequent examples to illustrate problem solving and practical applications Coverage includes review of mathematics measurement systems and a comprehensive section on dosage calculations Practice problems throughout the text and end of chapter and end of unit review questions will aid students application and recall of material A handy pull out card contains basic equivalents conversion factors and math formulas

Drug Calculations for Nurses Robert Lapham,2021-07-28 This new edition of Drug Calculations for Nurses teaches healthcare professionals how to perform drug calculations with confidence and competence It provides step by step guidance to carry out accurate drug calculations with units and drug strengths clearly explained This bestselling pocket size book begins with the basic mathematical skills required to perform calculations including tips on estimating answers It then covers drug strengths and concentrations dosage calculations IV infusion therapies and pharmacodynamics and pharmacokinetics Separate chapters focus on children adults and the elderly addressing specific challenges encountered in these populations with new content on pregnancy and renal and liver function Helpful worked examples key points and objectives are included in every chapter and this new edition includes more calculations for prescribing and patient focused scenarios The companion website www.drugcalcsnurses.co.uk provides a comprehensive test bank with a pre test and revision test to identify strengths and weaknesses along with additional practice questions for readers to test themselves on Designed for students and practitioners in nursing midwifery and allied health this textbook enables readers to improve their numeracy skills for clinical practice and develop their understanding of the broader context for these calculations

How to Master Nursing Calculations Chris John Tyreman,2010-09-03 To promote safe practice nursing schools test for basic arithmetic both at interview stage and during the 3 years of nurse training How to Master Nursing Calculations will help you to cope with these tests offering a step by step approach which will take you from base level knowledge to competency both in drug calculations and the ability to read drug dosage charts The book begins with a helpful diagnostic section which will help you to identify your strengths and weaknesses before going on to cover basic numeracy The book goes on to deal with drug dosage calculations and prescription awareness questions at both basic and more advanced levels It features clear illustrations showing how to read instrument scales medical admin records and pharmaceutical labels Combining drug dosage charts a chapter on drug administration including a list of abbreviations and their meanings mock tests with answers and full explanations How to Master Nursing Calculations will be an essential asset during your years as a trainee nurse and beyond

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

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Drug Calculations for Nurses Kerri Wright, 2011-05-11 This innovative text uses a common sense approach to introduce students to real life medication problems Featuring a range of exercises and assessments and supported by an interactive companion website this is the perfect handbook for anyone seeking to improve their numeracy skills for medication administration 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

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understand drug labels medication administration forms and physician s order forms Multiple choice Worksheets within each chapter help you prepare for the NCLEX examination Critical thinking exercises aid you in applying analytical skills and drug calculations to clinical practice Clinical Alerts highlight potential and common drug calculation errors Full color drug labels and equipment illustrations provide you with a realistic representation of medication administration and what you will encounter in the clinical setting Detailed coverage of the ratio and proportion method provides a logical accurate and consistent method of drug calculation Worksheets follow each chapter section for additional practice and application of drug calculations NEW Vocabulary section at the beginning of each chapter provides you with a convenient reference to definitions of terms used throughout the chapter NEW Clinical Relevance boxes integrate medication related clinical practice concepts such as nursing practice high risk medications safety issues and common administration errors

Drug Calculations for Nurses: A Step-by-Step Approach 3rd Edition Robert Lapham, Heather Agar, 2009-07-31 This best selling pocket sized book helps you perform drug calculations with confidence and competence The completely updated third edition includes community practice and primary care settings and a whole new section on pharmacology and medicines to put drug calculations into context Starting with the basic mathematical skills required for calculations including tips on using calculators and estimating answers Drug Calculations for Nurses progresses to give you an understanding of basic pharmacokinetics and therapeutics It also covers how drugs work in specific groups such as children and the elderly The book takes you through step by step drug calculations with units and drug strengths clearly explained Pre test and a revision questions allow you to test and be confident in the skills you have acquired

Essential Study Skills for Nursing Christine Ely, Ian Scott, 2007-01-01 Study skills are essential to nursing and the aim of this book is to provide you with an easy to use guide that will help you to develop the study skills necessary to your academic and professional life

Calculation Skills for Nurses Claire Boyd, 2022-03-21 Calculate the correct drug dosage every single time with help from this essential nursing guide In the newly revised Second Edition of Calculation Skills for Nurses author Claire Boyd delivers a practical and effective treatment of crucial nursing calculation abilities designed to instil confidence and competence in healthcare professionals Written for anyone working in the healthcare setting who requires mathematical assistance the book is designed to teach the skills required by the Nursing and Midwifery Council Standards Proficiency for Nursing Associates Pre registration Nursing Associate Programme The Code Professional Standards for Practice and Behaviour For Nurses Midwives and Nursing Associates and the NMC Essential Skills Clusters This latest edition includes more practice activities greater inclusivity more test questions more practice with budgets and data interpretation and more online resources You ll use a formula based approach and gain the understanding necessary to know when to apply which formula and why The book also includes A thorough grounding in basic math preparing you for more complex areas of nursing calculation Comprehensive explorations of the information you need to know in the clinical arena including working out drug dosages Practical

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