



CLINICAL CALCULATIONS

Basic Conversions

- 1 kg = 2.2 lbs
- 1 inch = 2.54 cm
- 1 foot = 12 inches
- 5 feet = 60 inches
- 6 feet = 72 inches
- 1 meter = 100 cm
- 1 g nitrogen = 6.25 g protein

IBW - Hamwi

W: 100 lbs for 1st 60 inches + 5 lbs every inch over

M: 106 lbs for 1st 60 inches + 6 lbs every inch over

BMI Formulas

$$\text{BMI} = \text{Mass (kg)} / \text{height (m)}^2 \quad \text{OR}$$

$$\text{BMI} = \text{Mass (lb)} / \text{height (in)}^2 \times 703$$

% Weight Change

$$\frac{(\text{UBW} - \text{ABW})}{\text{UBW}} \times 100$$

Amputations

$$\text{Adjusted IBW} = \frac{\text{Original IBW} \times (100\% - \% \text{ amputation})}{100}$$

Mifflin

W: $(10 \times \text{weight in kg}) + (6.25 \times \text{height in cm}) - (5 \times \text{age in years}) - 161$

M: $(10 \times \text{weight in kg}) + (6.25 \times \text{height in cm}) - (5 \times \text{age in years}) + 5$

Protein

0.8 – 2 g/kg

Quick Method

- Minimal Activity (bedridden): 25 kcal x kg
- Normal Activity (ambulatory): 30 kcal x kg
- Moderate Activity (exercise 3x/week): 35 kcal x kg
- Increased Activity (exercise 5x/week): 40 kcal x kg
- Intense Activity (exercise daily): 45 kcal x kg

Fluid

RDA method = 1 ml/1 kcal

Chronological Age Method

= fluid factor x kg

25 ml x kg → > 65 yo

30 ml x kg → 55-65 yo

30-35 ml x kg → 18-55 yo

Nitrogen Balance

$$\frac{\text{Protein intake (g)}}{6.25 - (\text{urinary nitrogen} + 4)}$$

Clinical Calculations

Gloria Pearl Craig



Clinical Calculations:

Clinical Calculations Joyce LeFever Kee, Sally M. Marshall, 2000 This popular resource is still the only text to review all four major drug calculation methods basic formula ratio and proportion fractional equation and dimensional analysis Practice problems help readers master each method so they can apply them effectively in practice Completely updated throughout this fourth edition provides the latest information on dosage calculations as well as the most current drug dosages

Clinical Calculations - E-Book Joyce LeFever Kee, Sally M. Marshall, 2012-02-29 NEW Prevention of Medication Errors chapter emphasizes patient safety to help you avoid common drug calculation and administration mistakes NEW Updated recommendations from The Joint Commission and the Institute for Safe Medication Practices offer helpful guidelines for reducing medication errors to ensure safe patient care outcomes NEW Updated medication label and equipment photos reflect the latest medications and technology used in drug administration Clinical Calculations and Medication Administration Dori Dahlberg, 2026-01-16 Clinical Calculations and Medication Administration Mastering the Fundamentals Using Dimensional Analysis equips readers with the essential skills and knowledge to accurately calculate medication dosages a critical competency in nursing and healthcare The book builds a strong mathematical foundation for interpreting medication orders and integrates clinical reasoning with proven calculation methods to promote safe and effective medication administration The book begins with a mathematical knowledge self test before progressing through various topics such as dimensional analysis for dosage calculations systems of measurement interpreting orders and drug labels medication error prevention enteral nutrition essential drug knowledge and step by step guides for administering various medication types including oral topical injectable and intravenous The unit on dosage calculations culminates in comprehensive post tests for self evaluation Additionally the book includes case studies to reinforce learned concepts and support clinical decision making in the healthcare setting Clinical Calculations and Medication Administration is ideal for courses in undergraduate nursing programs especially for students enrolled in fundamentals skills laboratory pharmacology and any healthcare course where medication administration and dosage calculation are relevant By building a strong foundation in math and progressing to real world patient care scenarios the book equips students with the confidence and competence needed to deliver safe high quality care in clinical practice Clinical Calculations: with Applications to General and Specialty Areas Joyce LeFever Kee, Sally M. Marshall, 2004-01 This book provides comprehensive coverage of dosage calculations used in nursing practice including applications not only for the general patient care areas but also for specialty units such as pediatrics critical care labor and delivery and the community In addition it is the only text on the market that presents all four major dosage calculation methods ratio proportion formula fractional equation and dimensional analysis It includes full color illustrations and comes packages with a Drug Calculations Student CD ROM **Drug Calculations Online for Clinical Calculations** Susan Turner, Sally M. Marshall, Donna Eberly, Joyce Lefever

Kee,2008-03-25 No matter what your preferred learning style this engaging online course is designed to help you master all four main methods of drug calculation more quickly easily and efficiently than by studying on your own You ll develop accurate drug calculation skills through practice reinforcement and interactive learning Lesson modules correspond with each chapter of Kee s Clinical Calculations 6th Edition encouraging you to apply what you ve learned in the text with skill building practice problems activities animations narrated examples and even NEW interactive case studies Explanations of all four major methods of drug calculation ratio proportion formula fractional equation and dimensional analysis help you discover which method you re most comfortable using Each module correlates with a chapter from the text including an overview learning outcomes a lesson introduction a reading assignment example problems practice problems and quizzes Extensive math instruction helps you master the basic skills needed to accurately calculate drug dosages Narrated step by step tutorials clearly explain how to solve many of the practice problems using your preferred calculation method Animations bring topics to life illustrating specific concepts related to drug calculation and administration Interactive self assessment activities such as matching sequencing labeling and multiple select help you evaluate and apply your knowledge in context Quizzes check your understanding of all major topics covered in each module Interactive case studies in most chapter modules incorporate patient scenarios to help prepare you for real world practice The most current guidelines for safe medication practice from The Joint Commission and the Institute for Safe Medication Practice are included throughout Updated drug labels and equipment photos familiarize you with the clinical environment Coverage of the latest drug administration techniques and devices brings you up to date on clinical practice featuring explanations of oral intravenous intra muscular subcutaneous and other routes used in drug administration An audio glossary defines relevant terminology and lets you hear how to correctly pronounce terms

Clinical Calculations - Binder Ready Joyce LeFever Kee, Joyce LeFever Kee, MS, RN, Sally M. Marshall, Sally M. Marshall, RN, MSN, Mary Catherine Forrester, Kathryn Woods, Kathryn Woods, RN, BSN, DNP-C, 2022-01-03 [Clinical Calculations](#) Joyce L. Kee, Sally M. Marshall, 1996 [Clinical Calculations Made Easy](#) Gloria P. Craig, 2009 Now in its Fifth Edition this book presents a systematic approach to solving dosage calculation problems using dimensional analysis The book uses the simple to complex approach focusing on understanding how to problem solve and is therefore divided into four sections 1 Clinical Calculations introduces the concepts and includes a comprehensive pre test 2 Practice Problems allows students the opportunity to refine their skills 3 Case Studies 45 helps the student relate dosage calculations to real clinical situations 4 A Comprehensive Post Test contains 25 questions allowing the instructor to assess the student s mastery of solving clinical calculations using dimensional analysis

Clinical Calculations Joanne M. Daniels, Loretta M. Smith, 1999 This text introduces dimensional analysis as the method for calculating all drug dosages The use of a single consistent method for dosage calculations helps eliminate confusion reduce errors and build confidence Chapters include numerous examples practice problems and self quizzes to enable students to

monitor their progress as well as interactive CD ROM medication administration starting factor conversion equation system of measurement oral parenteral intravenous pediatric household apothecary metric fractions decimals ratio percent proportion equations time temperature ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Instructor's Guide ISBN 0 7668 0200 0 Dosage Calculations Made Easy Gloria Pearl Craig, 2024-01-19 Straightforward approachable and rich with practice opportunities Dosage Calculations Made Easy Solving Problems Using Dimensional Analysis 8th Edition trains students to confidently calculate accurate medication dosages and fosters the critical thinking capabilities essential to their clinical success From basic math functions and measurement systems to complex problem solving methods this up to date simple to use skill building guide provides a proven framework for understanding and makes it easier than ever to master effective dosage calculation and drug administration processes **Clinical Calculations** Joanne M. Daniels, Loretta M. Smith, Professor Harry Daniels, Lecturer in Contrinetal European Cinema Alison Smith, Msc Dmu, 2005-07-06 The original is now a classic Clinical Calculations was the first text to introduce the dimensional analysis method of calculating dosages an approach rapidly becoming the method of choice for nurses The fifth edition of this trailblazer showcases its proven strengths a clear writing style workbook style format strong IV therapy content and clinical applicability Critical thinking is encouraged in conjunction with memorized rules by asking learners to always consider whether their answers make sense It does this within the context of providing the core knowledge base for dosage calculation and administration for learners of all levels and experience Chapters cover the range of practice including systems of measurement oral and parenteral medications basic and advanced intravenous medications and pediatric dosage Just as the title suggests this resource is the ideal tool for calculation in a clinical setting With copious reference tools outlined injection sites for IV therapy and unique performance criteria for evaluating nurse competency the tradition of excellence and innovation continues Clinical Calculations Made Easy CRAIG, 2019-09-25 Teach your students how to effectively and safely calculate medication dosages with Clinical Calculations Made Easy Solving Problems Using Dimensional Analysis 7E With many examples and in chapter exercises provides the opportunity for students to gain ability and confidence in the material before proceeding to the next concept Clinical Calculations - Binder Ready Joyce LeFever Kee, Joyce LeFever Kee, MS, RN, 2020-08-03 Binder Ready Edition This loose leaf copy of the full text is a convenient accessible and customizable alternative to the bound book With this binder ready edition you can personalize the text to match your unique study needs Learn to calculate drug dosages safely accurately and easily with Kee's Clinical Calculations 9th Edition This market leading text covers all four major drug calculation methods including ratio strong emphasis on patient safety and the incorporation of the latest information on antidiabetic agents anticoagulant agents drug administration techniques and devices Kee remains the winning choice for easy drug calculation mastery Coverage of all four major drug calculation methods includes ratio and explains their use in drug administration Calculations for Specialty Areas section

addresses the drug calculations needed to practice in pediatric critical care labor and delivery and community settings Detailed full color photos and illustrations show the most current equipment for IV therapy the latest types of pumps and the newest syringes Comprehensive post test lets you test your knowledge of key concepts from the text NEW Updated information on Antidiabetic Agents orals and injectables has been added throughout the text where appropriate NEW Updated content on Anticoagulant Agents is housed in an all new chapter NEW Colorized abbreviations for the four methods of calculation BF RP FE and DA appear in the Example Problems sections NEW Updated content and patient safety guidelines throughout the text reflects the latest practices and procedures NEW Updated practice problems across the text incorporate the latest drugs and dosages

Clinical Calculations Joyce LeFever Kee, Sally M. Marshall, 2016-01-25

Accurate drug calculations start here Clinical Calculations With Applications to General and Specialty Areas 8th Edition covers all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis It also includes practice problems not only for general care but also for specialty areas such as pediatrics and critical care A new chapter covers insulin administration and concise illustrated information includes the latest medications drug administration techniques and devices Written by a team of experts led by Joyce Kee Clinical Calculations makes it easy to understand drug calculation and emphasizes patient safety above all else Coverage of all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis allows you to apply the method that works best for you Updated information on drug administration techniques and devices helps you master the latest techniques of drug administration including oral intravenous intra muscular subcutaneous and other routes Updated drug information ensures you are familiar with the most commonly used drugs in clinical practice Caution boxes alert you to problems or issues related to various drugs and their administration Information on infusion pumps enteral single multi channel PCA and insulin helps you understand their use in drug administration Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric critical care labor and delivery and community settings Detailed full color photos and illustrations show the most current equipment for IV therapy the latest types of pumps and the newest syringes A comprehensive post test allows you to test your knowledge of key concepts from the text NEW Insulin Administration chapter provides a guide to administering injectable drugs NEW practice problems drugs drug labels and photos keep you up to date with today s clinical practice NEW Updated QSEN guidelines and The Joint Commission standards help in reducing medication errors and in providing safe patient care

Clinical Calculations - E-Book Joyce LeFever Kee, Sally M. Marshall, Mary Catherine Forrester, Kathryn Woods, 2022-02-11

Learn the most common methods of drug calculation and use the one that is right for you Clinical Calculations With Applications to General and Specialty Areas 10th Edition helps you learn to calculate drug dosages accurately It covers the four major drug calculation methods basic formula ratio and proportion fractional equation and dimensional analysis plus body weight and body surface area It also includes practice problems not only for general care

but also for specialty areas such as pediatrics and critical care Written by a team of experts this market leading text shows how drug calculation and drug administration are related and emphasizes patient safety above all else Coverage of four major drug calculation methods includes basic formula ratio and proportion fractional equation and dimensional analysis plus body weight and body surface area enabling you to learn and apply the method that works best for you Information on drugs drug administration techniques and devices helps you master the most up to date techniques of drug administration including oral intravenous intra muscular subcutaneous and other routes Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric labor and delivery critical care and community settings Detailed full color photos and illustrations show current equipment for IV therapy the latest types of pumps and the newest syringes Practice problems are included for specialty units pediatrics critical care pediatric critical care labor and delivery and community in addition to general patient areas Comprehensive post test allows you to test your knowledge of key concepts from the text Information on pumps covers insulin and enteral infusion pumps plus intravenous infusion pumps such as single and multi channel PCA and syringe explaining their use in drug administration Caution boxes provide alerts to problems or issues related to various drugs and their administration NEW Next Generation NCLEX examination style and NGN Prep questions introduce the new elements from the updated NCLEX exam assessing critical thinking clinical judgment and decision making based on actual clinical situations

Numeracy and Clinical Calculations for Nurses Neil Davison, 2014-11-07 A working grasp of numeracy and basic mathematical skills is vital in modern nursing Many student nurses have only a limited knowledge of the subject and struggle to get to grips with the key principles and calculations they need to know Numeracy and Clinical Calculations for Nurses is a user friendly introduction to the subject which guides the reader from the basics through to the core calculations required in a healthcare setting Using extensive worked examples the author links the abstract mathematics to real world situations to help the reader understand the subject in the context of their nursing practice Rather than simply training by rote the book features Sense Checks Top Tips and Error Alerts to encourage the reader to develop their overall numeracy skills and thus minimise the possibility of future errors

Clinical Calculations - Elsevier eBook on VitalSource (Retail Access Card) Joyce LeFever Kee, Sally M. Marshall, Mary Catherine Forrester, Kathryn Woods, 2022-03-14 Coverage of four major drug calculation methods includes basic formula ratio and proportion fractional equation and dimensional analysis plus body weight and body surface area enabling you to learn and apply the method that works best for you Information on drugs drug administration techniques and devices helps you master the most up to date techniques of drug administration including oral intravenous intra muscular subcutaneous and other routes Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric labor and delivery critical care and community settings Detailed full color photos and illustrations show current equipment for IV therapy the latest types of pumps and the newest syringes Practice problems are included for specialty

units pediatrics critical care pediatric critical care labor and delivery and community in addition to general patient areas Comprehensive post test allows you to test your knowledge of key concepts from the text Information on pumps covers insulin and enteral infusion pumps plus intravenous infusion pumps such as single and multi channel PCA and syringe explaining their use in drug administration Caution boxes provide alerts to problems or issues related to various drugs and their administration NEW Next Generation NCLEX examination style and NGN Prep questions introduce the new elements from the updated NCLEX exam assessing critical thinking clinical judgment and decision making based on actual clinical situations

Numeracy and Clinical Calculations for Nurses, second edition Neil Davison, 2020-06-15 Numeracy and Clinical Calculations for Nurses is a user friendly introduction for student nurses that guides you from the basics to the core calculations required in a healthcare setting To qualify as a registered nurse you will need to demonstrate proficiency and accuracy when calculating dosages of prescribed medicines The second edition of Numeracy and Clinical Calculations for Nurses features even more worked examples and practice tests all designed to increase your confidence and competence in calculating drug dosages and performing other important clinical calculations a critical issue in improving patient safety Key benefits Diagnostic test to assess your existing skills and knowledge Back to basics chapter uses a step by step approach to ensure understanding tested by nursing lecturers and their students Self assessment tests throughout each chapter enable you to monitor your progress Extensive worked examples use authentic scenarios to set learning in context Summary tests provide practice for numeracy exams Covers drug dosages and other clinical calculations such as pressure ulcer risk assessment tools National Early Warning Score hydration and fluid balance Malnutrition Universal Screening Tool BMI and ideal body weight Answers provided for all tests The book also features Error alerts pointing out common errors and why they are sometimes made Sense checks to help you avoid fundamental errors Tips to help with calculations and relate them to clinical practice Appendices covering safe administration of medicine routes of administration medication administration records drug glossary a handy multiplication grid and simple conversion tables Numeracy and Clinical Calculations for Nurses is required reading Before the numeracy test at your student nurse interview During your university course as you prepare for further numeracy exams In practice as you get to grips with drug doses BMI drip rates fluid balance etc

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

Drug Calculations

Online to Accompany Clinical Calculations Joyce LeFever Kee, Sally M. Marshall, Carmen Adams, 2004-03 This online drug calculations course consists of 11 modules corresponding to the parent text Kee Clinical Calculations 5th Edition Through the online Evolve course management system this learning tool serves as a complete drug calculations program to teach and reinforce good math skills Because each module works with the textbook students can read chapter content and then apply and practice what they have learned online through repetition practice problems animations and interactive activities Available as a package with the text for student savings This online course provides extensive math instruction to help students master the basic skills needed to accurately and effectively calculate drug dosages The content includes all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis to expose the user to all calculation methods so they can choose their preferred method Each module is organized by topic sections that include an overview objectives a reading assignment example problems practice problems and quizzes All of the math practice problems include Solution Buttons for each of the four drug calculation methods giving the user a step by step tutorial for solving the problem Animations are used throughout the course to demonstrate various concepts related to drug administration Interactive self assessment activities such as matching sequencing labeling and multiple select activities similar to the types of questions now seen on the NCLEX examination allow students to apply their knowledge in context Engaging audio commentary enhances the step by step explanation of math skills and drug calculation methods in addition to livening up instruction and discussion Quizzes within each module allow students to test their knowledge of all major topics covered in that particular section Comprehensive test bank is included to help the instructor build quizzes and tests Information on the latest drug administration techniques and devices includes detailed explanations of oral intravenous intramuscular subcutaneous and various other routes used in drug administration Material on the most up to date commonly used drugs provides exposure to what is being used in the real world of clinical practice Information on infusion pumps helps users understand their increasing role in drug administration

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