

IV Medication Bolus / Volume to be Administered

This formula is used when administering a specific medication as a single event. This medication administration can be done via IV, SC or IM.

When you are given a volume to administer, make sure all of the units of measure are in the same prefix. After converting all the units to the same prefix, use the following formula:

Formula: IV Medication Bolus / Volume To Be Administered

$$\frac{\text{desired dose} \times \text{volume on hand}}{\text{drug on hand}} = \text{volume to be administered}$$

Example 1:

You are ordered to give 20mg of Cardizem slow IVP. Your vial contains 25mg of the drug in 5mL of solution. How much of the medication should you administer?

Calculate volume to be administered using formula:

$$\frac{20\text{mg} \times 5\text{mL}}{25\text{mg}} = \frac{20\text{mg} \times 5\text{mL}}{25\text{mg}} = \frac{100}{25} = 4 \text{ mL}$$

Example 2:

Administer 1.5 mg/kg of lidocaine IVP to a patient. Your lidocaine is packaged 100mg per 5mL of solution. The patient weighs 160lb. How much of the medication should you administer?

Convert all units to like measurements:

$$160\text{lb} = 72\text{kg} \text{ (160 divided by 2 = 10\% = } 160/2 = 10\% = 80 - 8 = 72)$$

Calculate desired dose:

$$1.5\text{mg} \times 72\text{kg} = 108\text{mg}$$

Calculate volume to be administered using formula:

$$\frac{108\text{mg} \times 5\text{mL}}{100\text{mg}} = \frac{108\text{mg} \times 5\text{mL}}{100\text{mg}} = \frac{540}{100} = 5.40 \text{ mL}$$

Medication Math Problems For Paramedics

S. D. Foust



Medication Math Problems For Paramedics:

Paramedic Med-Math Made Easy MS Bsn Diane Pettway, RN, 2008-09 As an emergency care professional you save lives every day And while physicians will order various medications to be administered he or she may not know the strengths or amounts of medication you have available in your ambulance You therefore must convert what you have on hand into an equivalent dose to match the physician's orders *Paramedic Med Math Made Easy* provides step by step instructions for the most common every day formulas you'll use in the field In its easy to understand format you'll quickly grasp how to convert pounds to kilograms teaspoons to milliliters or grams to milligrams With the equivalents and formulas laid out *Paramedic Med Math Made Easy* then provides examples showing how formulas are used along with guidelines to help you understand each calculation Also included are practical application problems and their answers Each scenario illustrates how the application or conversion should be set up so you can clearly see and understand how the calculation works and where pitfalls may occur Admittedly you can choose among several math formula methods to calculate proper doses to administer Most important though is deciding what method works best for you the one that prevents you from making any errors *Paramedic Med Math Made Easy* will help you do just that

Paramedic: Calculations for Medication Administration

American Academy of Orthopaedic Surgeons (AAOS), Mithriel Salmon, David S. Pomerantz, 2008-10-13 I love math I hate math Whether you're a math aficionado or someone who cringes at calculations *Paramedic Calculations for Medication Administration* will make you a master of paramedic math This textbook teaches the basic principles of mathematics and applies these principles to cases that paramedics face on the job Chapters cover math rules and principles fractions decimals and percentages ratios proportions and conversion factors and rate dependent and weight based calculations Practice problems are scattered throughout the chapters students practice as they go Every chapter highlights how paramedics can make use of the math knowledge that they already have in order to solve more complicated problems Chapters begin with the simple and obvious and progress to the level used in the field Practice makes perfect this text has over 700 practice problems In addition to the in chapter practice chapters conclude with more problems Complete answers to every problem including explanations are provided in the answer key Every step is included making it easy to follow how an answer was reached Part of the AAOS *Paramedic Series* covers all the DOT objectives related to calculations for medication administration and can be used in prerequisite or co-requisite paramedic math courses 2009 224 pages

Med Math Simplified - Second Edition Jamie Davis, RN, NRP, BA, AAS, 2017-10-02 Struggling with medication math in nursing or paramedic school Worried you've calculated the wrong medication dose for your patient This book is for you *Med Math Simplified* represents the hard lessons learned by the author while becoming a paramedic and later a nurse It uses the concepts of dimensional analysis with a good old common sense approach to learning the math and formulas needed to safely and correctly arrive at drug doses for your patients This book was originally created as part of an online video course where

Jamie took viewers on a step by step tour of the problems and equations in the program Many of his audience members wanted a resource they could take with them after the course to review and practice the skills learned in the video program Thus the eBook and paperback book versions of the program were born **Paramedic** Mithriel Salmon,David Pomerantz,2008-01-30 This work teaches the basic principles of mathematics and applies them to cases that paramedics face in the field Chapters cover maths rules and principles ratios proportions and conversion factors fractions decimals and percentages Practice problems are scattered throughout *Paramedic Med-Math Made Easy* Diane Pettway,2008-09-30 As an emergency care professional you save lives every day And while physicians will order various medications to be administered he or she may not know the strengths or amounts of medication you have available in your ambulance You therefore must convert what you have on hand into an equivalent dose to match the physician s orders *Paramedic Med Math Made Easy* provides step by step instructions for the most common every day formulas you ll use in the field In its easy to understand format you ll quickly grasp how to convert pounds to kilograms teaspoons to milliliters or grams to milligrams With the equivalents and formulas laid out *Paramedic Med Math Made Easy* then provides examples showing how formulas are used along with guidelines to help you understand each calculation Also included are practical application problems and their answers Each scenario illustrates how the application or conversion should be set up so you can clearly see and understand how the calculation works and where pitfalls may occur Admittedly you can choose among several math formula methods to calculate proper doses to administer Most important though is deciding what method works best for you the one that prevents you from making any errors *Paramedic Med Math Made Easy* will help you do just that Paramedic Andrew N. Pollak, MD, FAAOS, Mithriel Salmon, BS, MT (ASCP), NREMT-P, LP and David S. Pomerantz, NREMT-B, EMT-P, **EMS Dosage Calculation: Math Review and Practice for Paramedics** Kaplan Medical,2018-01-24 Kaplan s EMS Dosage Calculation provides clear concept review practice questions and detailed explanations to help you master the math you need to correctly administer medications Whether you re an EMT or a paramedic Kaplan s practical guide provides expert advice for learning and practicing dosage calculation Essential Practice Diagnostic quiz to identify your strengths and weaknesses so you can focus your review Practice problems for oral IV and parenteral medication administration Dosage calculation practice using dimensional analysis ratio proportion and formula methods Easy to follow examples and step by step explanations Chapter quizzes with detailed answer keys for immediate feedback Calculation space throughout to work the practice problems Expert Guidance We invented test prep Kaplan www kaptest com has been helping students for almost 80 years Our proven strategies have helped legions of students achieve their dreams *Drug Dosage Calculations for the Emergency Care Provider* Alan A. Mikolaj,2003 Utilizing a simple systematic approach this comprehensive and practical book provides readers with all the tools necessary to solve just about every type of dosage and calculation problem A step by step approach guides learners through the areas that pose the greatest challenges mathematics systems of measurement the

metric system and systematic drug dosage calculation problem solving Section I focuses on fractions and basic algebra functions essential to understanding and solving drug dose calculation Section II discusses the history of systems of measurement reviews the old customary system and provides a complete explanation of the metric system and the federally approved rules governing the metric system in the United States Section II explains in detail each type of dosage calculation problem that may be encountered in the emergency setting with each chapter providing the building blocks for the next For the special group of professionals who dedicate themselves to the service of emergency patients **Paramedic: Calculations for Medication Administration, Instructor's Toolkit** American Academy of Orthopaedic Surgeons (AAOS) Staff, American Academy of Orthopaedic Surgeons (Aaos), Mithriel Salmon, 2009-02-09 I love math I hate math Whether you're a math aficionado or someone who cringes at calculations Paramedic Calculations for Medication Administration will make you a master of paramedic math This textbook teaches the basic principles of mathematics and applies these principles to cases that paramedics face on the job Chapters cover math rules and principles fractions decimals and percentages ratios proportions and conversion factors and rate dependent and weight based calculations Practice problems are scattered throughout the chapters students practice as they go Every chapter highlights how paramedics can make use of the math knowledge that they already have in order to solve more complicated problems Chapters begin with the simple and obvious and progress to the level used in the field Practice makes perfect this text has over 700 practice problems In addition to the in chapter practice chapters conclude with more problems Complete answers to every problem including explanations are provided in the answer key Every step is included making it easy to follow how an answer was reached Part of the AAOS Paramedic Series covers all the DOT objectives related to calculations for medication administration and can be used in prerequisite or co requisite paramedic math courses 2009 224 pages **Med Math Simplified** Jamie Davis, 2014-12-18 Med Math Simplified represents the hard lessons the author learned while becoming a paramedic and later a nurse It uses the concepts of dimensional analysis with a good old common sense approach to learning the math and formulas needed to safely and correctly arrive at drug doses for your patients This book was originally created as part of an online video course at MedMathSimplified com where Jamie took viewers on a step by step tour of the problems and equations in the program Many of his audience members wanted a resource they could take with them after the course to review and practice the skills learned in the video program Thus the eBook and paperback book versions of the program were borne *The Internet Yellow Pages* Harley Hahn, 1996 Lists and describes Internet resources on subjects ranging from agriculture to zoology pointing out those that are useful bizarre or otherwise noteworthy Med Math Simplified Jamie Davis, 2017-10-02 Med Math Simplified represents the hard lessons learned by the author a self professed math idiot while becoming a paramedic and later a nurse It uses the concepts of dimensional analysis with a good old common sense approach to learning the math and formulas needed to safely and correctly arrive at drug doses for your patients *Drug Calculations* Meta Brown, RN,

Med, Joyce L. Mulholland, MS, RN, ANP, MA, 2015-11-10 Extensively covering the ratio and proportion method Drug Calculations Ratio and Proportion Problems for Clinical Practice 10th Edition is known for its realistic practice problems and unique proof step in the answer key that lets you double check your answers to avoid medication errors This text addresses the current issue of patient safety with respect to accurate drug dosages through the inclusion of QSEN competencies recommendations and with features such as new Clinical Relevance boxes and Clinical Alerts that call attention to situations in actual practice that have resulted in drug errors You will get extensive hands on practice for the NCLEX Exam through the text s calculation problems critical thinking exercises worksheets and assessment tests Over 1 100 practice problems in ratio and proportion offer the extensive practice needed to become proficient in drug calculations Step by step format for each problem includes a unique Proof step in the answer key to ensure that you understand the solution Patient Safety chapter helps you prevent medication errors and 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

Prehospital Emergency Pharmacology Bryan E. Bledsoe, Dwayne E. Clayden, Frank J. Papa, 2001 This pharmacology book and handy reference is a complete guide to the most common medications used in prehospital care It reflects current trends in prehospital care and the most recent drug information This revision will update the book to cover the current AHA guidelines for cardiac care and will be updated to include the most recent drug information available Chapter topics include pharmacokinetics and pharmacodynamics administration of drugs drug dosage calculations fluids electrolytes and IV therapy the autonomic nervous system drugs used in the treatment of emergencies cardiovascular respiratory metabolic endocrine neurological obstetrical and gynecological toxicological behavioral and gastrointestinal and drugs used in pain management For practicing paramedics

The Medical Math Survival Guide Bryan Selvage, 2024-12-23 The Medical Math Survival Guide 500 Practice Scenarios The perfect companion to The Medical Math Survival Guide this comprehensive workbook delivers exactly what you need to transform knowledge into confidence Written by the same experienced paramedic each scenario is based on actual patient encounters including real world calculation errors that have been encountered in the field This workbook includes 500 unique practice scenarios 100 error detection challenges Find the

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COVER TITLE *Dosages and Calculations* Richard Wiederhold,2009 Geared towards allied health professionals physical therapists and physician assistants this competency based manual gives a clear and concise approach to the study of dosages This text prepares the reader to calculate correct doses of medications Working knowledge of basic mathematical skills are necessary to master the material **Henke's Med-Math** Susan Buchholz,Grace Henke,2008-09-01 Now in its Sixth Edition this best selling text features a highly visual hands on approach to learning dosage calculations and principles of drug administration It presents step by step approaches to solving problems and includes dosage problems that simulate actual clinical experience Each chapter includes numerous examples self tests and proficiency tests This edition presents all four methods of calculation side by side ratio proportion formula and dimensional analysis New material on enteral feedings heparin infusions and insulin infusions is included Drug labels are current and problems use JCAHO approved abbreviations A handy quick reference plastic pull out card shows conversions and formulas **Drug Calculations - E-Book** Meta Brown,Joyce L. Mulholland,2014-04-14 Covering the ratio and proportion method of drug calculations *Drug Calculations Ratio and Proportion Problems for Clinical Practice* 9th Edition provides clear step by step explanations and concise examples to ensure safety and accuracy Unique to this book a proof step in the answer key lets you double check your calculation results to avoid medication errors Safety is also addressed through the inclusion of Quality Safety Education for Nurses QSEN information and with features such as Clinical Alerts and High Alert drug icons calling attention to situations in actual practice that have resulted in drug errors Written by Meta Brown Seltzer and Joyce Mulholland this text includes extensive hands on practice with calculation problems critical thinking exercises worksheets and assessment tests And to boost your proficiency a companion Evolve website adds more than 600 additional practice problems The ratio and

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