

## IV and Drug Calculations for Busy Paramedics

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### Introduction

Medication calculations can cause frustration for EMS providers. Math and pharmacology can make it difficult to succeed on course exams, in the clinical setting, and in the field. There is a solution to make medication calculations easier. The answer to this problem is simple by showing students how to perform calculations using a simple process.

While there are plenty of good drug and solution textbooks, study guides, and presentations available showing the methods of medication calculations, it seems that it much of it causes mathematical confusion often called "math mental blocks" for many EMS providers.

There are only a few drug calculations necessary in the prehospital setting. These calculations include IV drip rates, IV piggyback infusion, IM and Subcutaneous injection. A good review of the metric system is in order here since medicine is based on this measurement system. It is necessary to *practice* drug calculations on a regular basis to gain a comfort level with the methods. The best way to achieve this comfort level is to practice medication calculations 30 minutes a day for six months and it will come natural after while.

Common abbreviations are used in medication administration for all medical fields. Below is a list of some abbreviations that are found in drug calculations used in the prehospital setting:

Gram = Mass	5 cc = 1 tsp	gtts/ml = Drops per milliliter
Meter = Length	15 cc = 1 TBS or 3 tsp	gtts/min = Drops per minute
Liter = Volume	30 cc = 1 ounce	Conversion
Gm = Grams	30 cc = 2 TBS	Convert grams to milligrams: multiply X 1000
Gtts = Drops	60 mg = 1 Grain	Convert liters to milliliters: multiply X 1000
Hr = Hour	1 Gram = 15 Grains	Convert milligrams to grams: divide by 1000
IVPB = Intravenous Piggyback	X = Multiply	Convert milliliters to liters: multiply X 1000
Mcg = Micrograms	x = Unknown answer	Don't forget where to place the decimal
Min = Minute	/ = Per or Each	
Mg = Milligrams	— = Divide	
ml = Milliliters	- = Minus	

Table 1

*It is assumed that the reader has an understanding of general mathematics. It also assumed that the reader has a general understanding of the metric system as it relates to medicine and drug calculations.*

# Iv And Drug Calculations For Busy Paramedics

**S. D. Foust**



#### **Iv And Drug Calculations For Busy Paramedics:**

**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 *Pharmacology for the EMS Provider* Richard K Beck, 2015-07-31 Overcome your fears and build your confidence while you master the mathematic and pharmacology knowledge you need to pass your licensure exams and prepare for professional practice Mosby's Paramedic Textbook Mick J. Sanders, Lawrence M. Lewis, Kim McKenna, Gary Quick, 2012 This new edition provides complete coverage of prehospital care in a single comprehensive text It explains the paramedic's role the unique characteristics of prehospital care emergency care of acutely ill traumatically injured patients *Clinical Cases: Drug Calculations Case Studies - eBook* Adriana Tiziani, 2016-01-07 **APPLY THEORY TO PRACTICE WITH THE CLINICAL CASES SERIES** Based on real life scenarios the Clinical Cases series presents quality case studies complete with answers to provide nursing students with an opportunity to explore scenarios they are likely to encounter in a variety of practice settings Clinical Cases Drug Calculations Case Studies can be used in conjunction with Havard's Nursing Guide to Drugs 9th edition as part of the suite of resources for undergraduate and Diploma of nursing students Each case starts with an introduction where the presenting condition and symptoms are outlined and as the case progresses more details of the patient's condition tests medications and other considerations are provided All cases come together with a conclusion where the patient outcomes are highlighted followed by a discussion of the key considerations for the case Multiple Choice Questions are integrated throughout and rationales are provided for all answers Clinical Cases Drug Calculations Case Studies is perfect for use during exam preparation or as a study tool providing an engaging approach to learning and revision 20 progressive case studies across a range of clinical practice areas including care of the adult patient paediatrics aged care palliative care and midwifery Multiple Choice Questions integrated throughout

each stage of the case studies Rationales provided for all answers References for further reading and research Paramedic Andrew N. Pollak, MD, FAAOS, Mithriel Salmon, BS, MT (ASCP), NREMT-P, LP and David S. Pomerantz, NREMT-B, EMT-P,

**Emergency Medical Services**, 1991 **ACLS** Ken Grauer, 1996 With timely detailed coverage of the new requirements and skills needed to pass the Advanced Cardiac Life Support Examination this book discusses the new American Heart Association ACLS algorithms and reviews important drugs and treatment modalities including defibrillation and pacing Case scenarios are emphasized 112 illus Workbook for Pharmacology for Nurses Adams, Michael Patrick Adams, Dianne L. Josephson, Senior Lecturer in Human Resource Management Holland, Leland Norman Holland, Pearson, 2004-03

**Introduction to Drug Calculations** Greg Logue, 2014-07-07 Finally a drug calculations manual for PARAMEDICS Written by a paramedic instructor with over 20 years of experience in EMS this manual provides the simple instructions needed to tackle one of the most stressful phases of Paramedic school A few years ago the author noticed an unacceptable lack of proficiency in drug calculations from paramedic students Since he developed this step by step manual his students grades increased from 50 s and 60 s to 90 s and 100 s Introduction to Drug Calculations uses a step by step process to build your skills from the ground up starting with the basics of the metric system and finishing with IV infusions The manual also contains valuable reference material and short cuts to help you in school and on the streets **Drug Dosage Calculations** Alan A. Mikolaj, 1997 This practical new text provides readers with all the necessary tools to solve just about every type of dosage and calculation problem they will encounter It focuses on the three areas that pose the greatest challenges

**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 **Clinical Calculations - E-Book** Joyce LeFever Kee, Sally M. Marshall, 2016-01-19 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

**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 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

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errors Critical thinking exercises help you apply analytical skills and drug calculations to clinical practice A patient safety chapter enhances your understanding of drug labels medication administration forms and physician s order forms Over 1 100 practice problems offer the extensive practice you need to become proficient in drug calculations Multiple choice worksheets within each chapter help you prepare for the NCLEX examination Worksheets follow each chapter section for additional practice and application of drug calculations Chapter Finals and a Comprehensive Final let you evaluate your mastery of drug calculations Current recommendations from The Joint Commission and the Institute for Safe Medication Practices help reduce medication errors and promote patient safety Quality Safety Education for Nurses QSEN information highlights ways to reduce medication errors A high risk medication icon calls attention to medications that have the most potential to cause harm to patients Updated full color drug labels and equipment photos including pumps and IV equipment show what you will encounter in the clinical setting

**Drug Calculations & Drug Administration** Cynthia C. Chernecky, Mother Helena Infortuna, Denise Macklin, 2006 Designed to be a study and review series to help you get through the nursing school jungle With this tool in your hands you ll have no trouble mastering the complexities of drug calculations and oral intramuscular subcutaneous topical and intravenous drug administration

*Medical Dosage Calculations For Dummies* Richard Snyder, Barry Schoenborn, 2011-05-03 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 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

*Drug Calculations - E-Book* Meta Brown, Joyce L. Mulholland, 2015-11-16 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

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## **Table of Contents Iv And Drug Calculations For Busy Paramedics**

1. Understanding the eBook Iv And Drug Calculations For Busy Paramedics
  - The Rise of Digital Reading Iv And Drug Calculations For Busy Paramedics
  - Advantages of eBooks Over Traditional Books
2. Identifying Iv And Drug Calculations For Busy Paramedics
  - 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 Iv And Drug Calculations For Busy Paramedics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Iv And Drug Calculations For Busy Paramedics

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

- Fact-Checking eBook Content of Iv And Drug Calculations For Busy Paramedics
- 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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