

## IV and Drug Calculations for Busy Paramedics

By Kent R. Spzler, MSED, RN, NREMT-P  
EMS Educator  
Charlotte, North Carolina

### 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.*

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**Michal Rosen-Zvi**



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**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

**Easy 4-step Method to Drug Calculations** S. D. Foust, 2004 This resource makes the difficult concept of drug dosage calculations easy to understand and master by utilizing a simple four step method that focuses only on the information necessary for learning the skill It has been class tested on hundreds of students KEY TOPICS Hundreds of practice problems are included that incorporate realistic patient scenarios protocols and the latest trends in treatment management A worked out answer section clearly shows the step by step process of problem solving Topics include Calculating the Desired Dose Calculating the Concentration Calculating the cc s Calculating the Drip

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