

## 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.*

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**S. D. Foust**



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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, **Sanders' Paramedic Textbook** Mick J. Sanders, Kim McKenna, American Academy of Orthopaedic Surgeons (AAOS), 2024-01-17 Based on current guidelines standards and medical research in the EMS field Sanders Paramedic Textbook Sixth Edition is both a comprehensive learning tool for paramedic students and reliable desk reference for emergency physicians This critical resource includes in depth explorations of key subjects such as pathophysiology pharmacology airway management medical disorders patient assessment and trauma

*Emergency Medical Services*, 1991 **Prehospital Drug Therapy** Sheryl M. Gonsoulin, Mick J. Sanders, William Raynovich, 2001 This revision is an all in one source of prehospital drug information that complies with the newest DOT curriculum and the AHA 2000 guidelines It includes the basic principles of pharmacology pharmacotherapy for patients in specific emergencies implications for paramedic practice learning tools and more New to this edition a RMath for MedicsS chapter new photographs and updated illustrations

Paramedic Care Bryan E. Bledsoe, Robert S. Porter, Richard A. Cherry, 2000 Volume 1 Introduction to Advanced Prehospital Care includes Airway Management Volume 2 Patient Assessment Volume 3 Medical Emergencies Volume 4 Trauma Emergencies Volume 5 Special Considerations Operations includes Assessment Based Management Dr Bryan E Bledsoe lead author of the classic pre 98 curriculum text Paramedic Emergency Care along with co authors Robert Porter and Richard Cherry has woven together contributions from field experts to provide detailed yet student friendly texts that will set the standard for paramedic education for years to come In developing this series to meet the new curriculum the goals were threefold Comprehensive coverage The program includes all materials required for the new U S DOT curriculum and where appropriate expanded information Accuracy The material reflects the best and latest in scientific and medical practice written and reviewed by experts Appropriate level Concepts and terminology are clearly explained Beginning at the level of the new student and progressing through the development of new and advanced concepts this series will provide the student with a broad background of knowledge and a firm grasp of how to apply it to paramedic emergency care

**Index Medicus**, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings 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

Men's Health, 2008-09 Men's Health magazine contains daily tips and articles on fitness nutrition relationships sex career and lifestyle

**Daily Labor Report**, 2008

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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     *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     **BMJ** ,1998     *The New York Times Index* ,2001     **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 Rate A Final Review Section tests comprehension **MARKET** Paramedics nurses students and any other healthcare professional who administers medication     **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

## Decoding **Iv And Drug Calculations For Busy Paramedics**: Revealing the Captivating Potential of Verbal Expression

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