

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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