

# MEDICATION DOSAGE AND CALCULATIONS

## LIQUID

1 oz = 30mL  
1 oz = 2 Tbsp  
1 Tbsp = 3 tsp  
1 Tbsp = 15mL  
1 tsp = 5mL  
8oz = 1 cup  
1 pint = 16oz

## SOLID

1 kg = 2.2 lb.  
1 in = 2.54 cm

## TIME

min  $\rightarrow$  hr ( $\div$  by 60)  
hr  $\rightarrow$  min ( $\times$  by 60)

## MASS

mcg  $\rightarrow$  mg  $\rightarrow$  g  $\rightarrow$  kg ( $\div$  by 1000)  
mcg  $\leftarrow$  mg  $\leftarrow$  g  $\leftarrow$  kg ( $\times$  by 1000)  
lb.  $\rightarrow$  kg ( $\div$  by 2.2)  
kg  $\rightarrow$  lb. ( $\times$  by 2.2)

## VOLUME

mcL  $\rightarrow$  mL  $\rightarrow$  L  $\rightarrow$  kL ( $\div$  by 1000)  
mcL  $\leftarrow$  mL  $\leftarrow$  L  $\leftarrow$  kL ( $\times$  by 1000)  
1 mL = 1 cc  
1 mL = 15 gtt

**TIP:** When you hear the word "gram" think of pennies (smaller units) and when you hear "kilogram" think of a dollar bill (larger unit). 100 pennies fit into a dollar bill, so think about grams fitting into kilograms since grams are smaller than kilograms. We can also think that kilograms are bigger than grams because we weight adults in kilograms and that's heavy.

# COMMON CALCULATIONS

## BASIC CALCULATIONS:

$$\frac{\text{ordered}}{\text{available}} \times \text{volume} = \text{dose}$$

## TABLET DOSAGES:

$$\frac{\text{desired dosage}}{\text{available}} = \# \text{ of tablets}$$

## MIXTURES AND SOLUTIONS: (bolus or push)

$$\frac{\text{desired dosage}}{\text{available}} \times \text{stock volume} = \text{amount of solution given}$$

## IV RATE:

$$1. \text{ mL per hr or min} \rightarrow \frac{\text{total IV volume}}{\text{total time (hr or min)}} = \text{mL/hr or min}$$

$$2. \text{ gtt/min} \rightarrow \frac{\text{total IV volume}}{\text{time (minutes)}} \times \text{drop factor} = \text{gtt/min}$$

Drop factor  
will be given

$$3. \text{ Remaining time of infusion} \rightarrow \frac{\text{volume remaining (mL)}}{\text{gtt}} \times \text{drop factor} = \text{minutes remaining}$$

$$4. \text{ Flow rate} \rightarrow \frac{\text{ordered per hour}}{\text{medication available}} \times \text{volume (mL)} = \text{mL/hr}$$

$$5. \text{ Flow rate} \rightarrow \frac{\text{ordered per hour} \times \text{kg}}{\text{medication available}} \times \text{volume (mL)} = \text{mL/hr}$$

**KEY:** This formula is for hours. If you are given minutes, simply multiply by 60

# Medical Dosage Calculations Lab Manual

**Sheila J. Ogden**

## **Medical Dosage Calculations Lab Manual:**

**Laboratory Manual of Pharmacotherapeutics** Dr. Remeth J. Dias, Dr. Kuldeep U. Bansod, Dr. Prashant D. Aragade, Mr. Sushant Sudhir Pande, 2023-09-29 We are very pleased to put forth the revised edition of Laboratory Manual of Pharmacotherapeutics. We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome. We are very much thankful to all the learned teachers who have given their feedback whole heartedly. We have even incorporated the changes in this manual based on the feedback given by the teachers from all the institutes. Now we believe that the manual has been fulfilling the aspirations of Pharmacotherapeutics teachers and students too. This manual is prepared as per PCI Education Regulations 2020 for Diploma Course in Pharmacy. The methods of all the experiments are reviewed and added from the recent research papers so that the advancement in the methods or apparatus can be addressed. This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance, practical outcomes, PrOs and its mapping with course outcomes, minimum theoretical background resources used, procedure, precautions, observations, result, conclusion, references, and related questions. Moreover, assessment scheme is also given to help the student and teacher to know what to be assessed. Every experiment has the component of the activity or role play included so that the students will be able to interact with patients and give them counselling tips on the proper care to be taken in chronic diseases. In addition, the questions are given at the end of experiments to increase the knowledge of students which would be helpful for them when they will go for higher studies. Hope this manual will help the students to learn the concept principles and perform activities and role play counselling the public about diseases and medication. We wish you all the best.

*Laboratory Manual of Physical Pharmaceutics I* Dr. Vishwajeet S. Ghorpade, Dr. Remeth J. Dias, Dr. Kailas Mali, Dr. Prasad Patrekar, 2023-10-07 We are very pleased to put forth the first edition of Laboratory Manual of Physical Pharmaceutics I. This manual is prepared as per PCI Education Regulations 2014 for Degree Course in Pharmacy. This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance, practical outcomes, PrOs and its mapping with course outcomes, minimum theoretical background resources used, procedure, precautions, observations, result, conclusion, references, and related questions. A sincere attempt has been made through this manual to provide practical knowledge to the students related to various experiments in Physical Pharmaceutics I. The manual mainly includes the experiments through which the students will learn how the basic properties of drug like solubility, dissolution can limit the bioavailability of drug and in turn the efficacy of the drug. The solubility enhancement techniques like reduction of particle size, use of solubilizing agents or prodrugs etc are also discussed. The students will also learn about the importance of drug stability and how the parameters like temperature, pH, humidity, and light can affect the drug stability. Physical pharmaceutics is very important subject which helps the researchers to design and formulate various dosage forms including its manufacturing aspects. The students will be

proficient in handling various equipment used in physical pharmaceutics laboratory The students will also be able to determine pKa partition coefficient surface tension critical micelle concentration HLB value stability constant buffer capacity etc in the laboratory We have taken extra efforts to make the experiments simpler easy to understand and perform The graphs have also been provided wherever necessary Each experiment is divided into sections like aim practical significance relevant course outcomes practical skills relevant affective domain related outcomes practical outcomes minimum theoretical background requirements related questions and references The manual has been designed with more emphasis on the practical skill improvement of the students so that the students can perform the practical with ease and comfort We are very much thankful to the designer publisher printers and all the stakeholders for putting their efforts for successfully bringing this manual out for the students Hope this manual will help the students to learn the concept principles and perform the experiments We wish them all the best     **Hdbk Med Physics** Robert G. Waggener,James G. Kereiakes,Robert J. Shalek,1982     **Current Catalog** National Library of Medicine (U.S.),1983 First multi year cumulation covers six years 1965 70     **Laboratory Manual for Principles and Processes of Pharmacy** Henry Matthew Burlage,1946     **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1983     *Foundations for the Practice of EMS Education* Melissa Alexander,2006 For EMS and instructor development courses Foundations for the Practice of EMS Education provides broad based coverage of fundamental principles and practices of EMS education The text provides clear up to date information and references for more in depth material as well as examples and templates of many useful educational tools Whether in fire based hospital based or higher education programs the EMS educator will find practical information and guidelines for program planning implementation and evaluation for both pre service and continuing education This text covers all elements of the newly published NHTSA and National Association of EMS Educators guidelines for instructor development and future national certification recognition     **Laboratory Procedures for the Medical Office** Tom Palko,Hilda Palko,1995     **Medical Dosage Calculations** June Looby Olsen,Anthony Patrick Giangrasso,Dolores M. Shrimpton,2004 The Eight Edition of Medical Dosage Calculations continues to be a user friendly drug calculation text and workbook Utilizing a dimensional analysis approach this comprehensive resource begins with simple arithmetic and progresses to the most complex drug calculation problem Completely revised and updated to include the latest practices and medications an updated comprehensive review section and a new companion website it provides all of the details for a complete understanding of these most critical calculation skills NEW Companion Website [www.prenhall.com/olsen](http://www.prenhall.com/olsen) with critical thinking questions and more Revised and updated to include the latest practices and medications Updated questions critical thinking case studies practice problem sets and self tests Over 1000 problems throughout Exercises complete with solutions for a complete look at the step by step process A comprehensive review section is ideal for reference and self testing An arithmetic review Chapter 1 provides a foundation for the calculations that follow throughout the text Actual drug

labels are real life examples of what is used in health care settings The most frequently used drugs organized by both generic and trade names *Roberts' Practical Guide to Common Medical Emergencies* James R. Roberts,1996 written by a leading authority in emergency medicine this convenient handbook is packed with expert advice on what to do when to do it and why to do it for the most commonly encountered emergency situations Specifically designed for quick and easy reference the book provides hands on guidance for dealing with acetaminophen toxicity ophthalmological emergencies puncture wounds swallowed foreign bodies paronychia pain control streptococcal pharyngitis tendon disorders and seizures An additional section examines common myths and misconceptions about NSAID gastropathy kidney stones epinephrine therapy for gastrointestinal hemorrhage and other problems and procedures in emergency medicine The author is the Editorial Board Chairman of Emergency Medicine News the field's number one publication in readership exposure and efficiency The book is based on Dr Roberts most popular In Focus columns from the magazine completely updated and revised for today's practice

**The Journal of Practical Nursing** ,1991    The Medical Era Solomon Claiborne Martin,Clarence Martin,1899    A *Guide to Drug Information and Literature* Norris Medical Library,1978    *Drug Intelligence & Clinical Pharmacy* ,1985

*Calculation of Drug Dosages* Sheila J. Ogden,2003 This popular dosage calculation work text helps students master the critical skills necessary to competently and confidently calculate drug dosages Innovative and practical it includes information on the ratio and proportion formula and dimensional analysis methods of drug calculation and numerous practice problems to accompany these methods Ideal for students who need an extensive math review in addition to drug calculations content this new edition features a more logical organization a new chapter addressing medication administration to critically ill patients and more practice problems on calculations for pediatric patients    *The Cumulative Book Index* ,1999

*The Journal of Laboratory and Clinical Medicine* ,1923    Radioactive pharmaceuticals ,1966    **Laboratory Guide to Biology** Charles F. Lytle,1987    **Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,2000

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