

# DOSAGE CALCULATION

## Printable PDF

### DOSAGE CALCULATION

#### CONVERSIONS

1 kg = 1000 lbs  
 1000 g = 1 kg  
 1000 mg = 1 g  
 1000 micrograms = 1 mg  
 1000 ul = 1 ml  
 1 fl oz = 16 oz  
 1 fl oz = 2 cups  
 1 cup = 8 fl oz

#### SOLID DOSAGE CALCULATION

##### Steps

1. Determine the quantity available
2. Determine the dose available
3. Determine the desired dose
4. Determine the units you are calculating and convert if required

##### Formula to use for calculation

$$\frac{\text{Quantity Available}}{\text{Dose Available}} \times \frac{\text{Desired Dose}}{\text{Dose Available}} = \text{X}$$

##### Example

Quantity Available: 1 Tablet  
 Dose Available: 500 mg  
 Desired Dose: 1000 mg  
 Solve:

$$\frac{1 \text{ Tablet}}{500 \text{ mg}} \times \frac{1000 \text{ mg}}{500 \text{ mg}} = 2 \text{ Tablets}$$

#### LIQUID DOSAGE CALCULATION

To administer 500 mg of erythropoietin that is available in a dose of 100mg/ml

##### Solve:

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{500 \text{ mg}}{100 \text{ mg}} = 5 \text{ ml}$$

5 ml of erythropoietin will be administered

#### INJECTIBLE DOSAGE CALCULATION

Order: Administer 50mg of Novocin every 6 hrs.  
The available dose of Novocin is 100mg/ml

##### Solve:

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{100 \text{ mg}} = 0.5 \text{ ml}$$

#### WEIGHT BASED DOSAGE CALCULATION

Order: Administer Amoxicillin 40mg/kg in 2 doses  
 The available dose of Amoxicillin is 400mg/5ml  
 Weight of patient is 50 kg  
 To calculate the dose to be given to a child weighing 50 kg first calculate the dose to be given in mg

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{50 \text{ kg}}{1} = 2000 \text{ mg}$$

Divide the dose with frequency:  $\frac{2000 \text{ mg}}{2} = 1000 \text{ mg}$

#### IV FLOW RATE

##### IV Flow ml/hr

Order: Administer 1,000ml of 0.9% in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{60 \text{ min}}{1 \text{ hr}} = 6000 \text{ ml/hr}$$

##### IV Flow gtt/min

Order: Administer 1,000ml of 0.9% in 10 hours (drip chamber)  
Drop Factor 15 gtt/ml

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Drop Factor}}{1 \text{ ml}} = \frac{1000 \text{ ml}}{10 \text{ hrs}} \times \frac{15 \text{ gtt/ml}}{1 \text{ ml}} = 1500 \text{ gtt/min}$$

#### EXAMPLES

Order: Administer 100 mg po of baclofen. The nurse has 50mg tablets. How much dose she will administer?

$$\frac{1 \text{ Tablet}}{50 \text{ mg}} \times \frac{100 \text{ mg}}{50 \text{ mg}} = 2 \text{ Tablets}$$

Order: Administer 0.5 mg/kg for a child weighing 100 lbs. How much dose will be administered?

Order: Administer 10 mg/kg for the child. The medication is 100 mg/ml. How much dose will be administered by nurse?

#### ABBREVIATIONS AND TERMS

stat = Immediately  
 bid = Twice a day  
 tid = Three a day  
 qid = Four times a day  
 q = every  
 q6h = every 6 hrs  
 q8h = every 8 hrs  
 q12h = every 12 hrs  
 prn = as needed  
 ac = before meals  
 pc = after meals  
 po = By Mouth  
 pr = per rectum  
 prn = per rectum  
 tid = TID  
 cap = Capsule  
 sup = Suppository

# Guide For Pharmaceutical Calculations

**Mary Lynn McPherson**



## Guide For Pharmaceutical Calculations:

**Reference guide for pharmaceutical calculations** Manan Shroff, 2008      Pharmaceutical Calculations Howard C. Ansel, Shelly J. Prince, 2004 This handbook is intended to be used as a tool that can be quickly accessed and employed in the in the student setting as a lab reference and in the pharmacy practice Designed as a concise reference and resource it will provide easily accessible definitions pharmacy applications insight on working with tricky calculations and realistic function example calculation With its convenient size and easy to navigate outline structure this handbook should provide great value to both the student and pharmacist      **Reference Guide For Pharmaceutical Calculations Second Edition (NAPLEX, FPCEE and PTCE)** Manan Shroff, 2002      **Practical Handbook of Pharmaceutical Calculations** Mohammad T. H. Nutan, Anna Ratka, Ziyaur Rahman, 2020-08-15      **Introduction to Pharmaceutical Calculations, 4th edition** Judith A. Rees, Ian Smith, Jennie Watson, 2015-04-21 Introduction to Pharmaceutical Calculations is an essential study aid for pharmacy students The book contains worked examples and sample questions and answers      *Pharmaceutical Calculations* Joel L. Zatz, Maria Glaucia Teixeira, 2013-03-27 Pharmacists are required to make certain kinds of calculations that determine the quantities of materials required for filling prescriptions and making up formulas The new and expanded topics introduced in the fourth edition teach pharmacists and pharmacy students how to do the calculations required in current practice covering important areas such as handling injectibles including those used in parenteral nutrition and radiopharmaceuticals The book also includes new chapters on isotonicity intravenous fluids and nutritional calculations Features New concepts introduced in sequence encouraging the student to master each concept before moving ahead Many examples and practice problems all with answers and the availability of rapid feedback build confidence Filled with practical instruction relevant to the problems pharmacist face in their practice      Pharmaceutical Calculations Maria Glaucia Teixeira, Joel L. Zatz, 2017-02-02 Retaining the successful previous editions programmed instructional format this book improves and updates an authoritative textbook to keep pace with compounding trends and calculations addressing real world calculations pharmacists perform and allowing students to learn at their own pace through examples Connects well with the current emphasis on self paced and active learning in pharmacy schools Adds a new chapter dedicated to practical calculations used in contemporary compounding new appendices and solutions and answers for all problems Maintains value for teaching pharmacy students the principles while also serving as a reference for review by students in preparation for licensure exams Rearranges chapters and rewrites topics of the previous edition making its content ideal to be used as the primary textbook in a typical dosage calculations course for any health care professional Reviews of the prior edition a well structured approach to the topic Drug Development and Industrial Pharmacy and a perfectly organized manual that serves as a expert guide Electric Review

*The Pharmacist Guide to Implementing Pharmaceutical Care* Filipa Alves da Costa, J. W. Foppe van Mil, Aldo Alvarez-Risco, 2018-09-17 Through the contributions of global experts this book meets the growing need to understand the

implementation and development of pharmaceutical care Pharmaceutical Care Implementation details the clinical pharmacist's role in providing care to different kind of patients using clinical strategies that improve humanistic economic and clinical outcomes Written with a focus for students and pharmacists this book offers multiple scenarios that serve to improve technical skills These examples show step by step implementation processes from pharmacists who have worked for many years in these fields drug related problems pharmaceutical care in different settings community hospital home care research outcomes communication skills indicators advertising remuneration of practice standards guidelines protocols and teaching approaches for universities Readers will use this book to Improve their skills to prevent detect and solve drug related problems Understand the characteristics of care for patients in different settings Consolidate knowledge from different global research outcomes Develop and improve communication skills to establish relationships with patients and healthcare professionals Learn to use indicators standards guidelines and protocols to guide and evaluate pharmaceutical care performance Use different tools to advertise pharmaceutical care services Document pharmaceutical care practices and create evidence for remuneration

**Pharmacy Essentials: A Compact Guide for Students and Practitioners** Dr. Amit Kumar, Dr. Ravi Prakash Degala, Mr. Prakash Nathaniel Kumar Sarella, Mrs. Vinny Therissa Mangam, Dr. Ajmal Tariq Hussain, 2025-07-20 The Textbook of Pharmacy Essentials A Compact Guide for Students and Practitioners is as an indispensable resource for pharmacy students and practicing professionals It covers fundamental concepts of pharmaceutical sciences drug classifications medication therapy management and essential clinical practices written in clear accessible language It is perfect for both quick consultations and in depth study for academic learning and daily pharmacy practice It contains the core principles of pharmacy practice into a single accessible volume Enhanced with clinical pearls decision making algorithms and therapeutic guidelines this book will help transform complex pharmaceutical concepts into practical applications Whether you're a student preparing for exams or a seasoned pharmacist seeking a reliable reference this book provides the vital information you need at your fingertips

**Pharmaceutical Calculations** Payal Agarwal, 2014-09-12 Pharmaceutical Calculations is the perfect text for students or professionals aiming to understand or develop the calculations skills that play a significant role in building a competent pharmacist This text focuses on basic math fundamentals essential for pharmaceutical calculations followed by calculations that are more specific to compounding and formulation of individual dosage This helpful approach incorporates solved examples for each individual section followed by practice sets with an answer key to each problem At the end of each chapter case studies demonstrate the application of mathematical calculations in compounding actual prescriptions

**Practical Pharmaceutical Calculations** M. C. Bonner, 1999 Offers concise and practical guidance on the common types of calculation used in pharmacy and drug preparation Selected worked examples and test questions are provided at the end of each chapter as well as a general test at the end of the book

**Pharmaceutical Calculations** Sean

Parsons,2012-06 This textbook has been developed specifically for pharmacy technicians but it also provides a good overview of health care mathematics for any health professional This book teaches the following concepts basic math review 24 hour time exponents temperature conversion units of measurement understanding prescriptions day s supply extemporaneous compounding billing compounds pharmacy business math parenteral dosage calculations insulin milliMoles milliEquivalents millicuries and international units powder volume calculations percentage strength ratio strength parts reducing enlarging formulas parts per million calculations based on body weight calculations based on body surface area infusion rates drip rates dilutions alligations parenteral nutrition and aliquots This book also includes an answer key to check your work against Learn more about this book at <http://pharmaceuticalcalculations.org> where you may even download a copy of this textbook for free

*Pharmaceutical Calculations* Howard C. Ansel,2012-10-26 Widely recognized as the leading calculations textbook Ansel s *Pharmaceutical Calculations* is the most trusted resource for calculations support Time tested after thirteen editions it is the most comprehensive and in depth treatment of pharmacy calculations available The book takes a step by step approach to calculations making it easy for students to work through the problems and gain greater understanding of the underlying concepts Its focus is on the fundamental principles and basic techniques involved in the application of the calculations needed for successful pharmacy practice

**Pharmaceutical Practice E-Book** Arthur J. Winfield,Judith Rees,Ian Smith,2009-07-21 This comprehensive book covers a wide range of subjects relevant to pharmacy practice including communication skills managing a business quality assurance dispensing calculations packaging storage and labeling of medicines sterilization prescriptions hospital based services techniques and treatments adverse drug reactions pharmacoeconomics and medicines management Features useful appendices on medical abbreviations pharmaceutical Latin terms weights and measures and presentation skills This is a core text for pharmacy practice and dispensing modules of the pharmacy curriculum Covers key exam material for essential review and test preparation Features a user friendly design with clear headings chapter summaries helpful boxes and key points Text restructured with 14 new or radically revised chapters All text revised in light of current pharmaceutical practice New design using two colours

Drug Information Bonnie Snow,1999-11-17 Designed for use as a self study text as a course text in more formal instruction programs or as a refresher for the busy professional the book includes valuable background data on legal and regulatory issues as well as pharmaceutical technology

D Pharma: Pharmacist Exit Exam Master Guide Drx Jitendra Kumar,2025-05-12 *D Pharma Pharmacist Exit Exam Master Guide* by Drx Jitendra Kumar is an essential preparation book for pharmacy students appearing in exit exams With over 5000 MCQs it serves as a complete and structured resource for mastering key concepts in pharmacy Drawing from the author s 20 years of experience in hospital pharmacy and healthcare this guide is designed to boost confidence and accuracy Perfect for students aiming to succeed in the pharmacist exit exam this book combines practical knowledge with exam focused content making it a must have reference

**Pharmacist's Handbook: A Guide to**

**Medication Therapy and Patient Care** Malek Yahya Albishri, Khaled Qablan Alharbi, Ahmed Saeed Alzahrani, Yazeed Habib Almutairi, *The Pharmacist's Handbook* is an instant classic for the pharmacist who wants to maximize medication therapy management MTM and patient care In the multifaceted world of healthcare we live in today pharmacists are an essential part of the healthcare team whose efforts help ensure safe and effective medication use promote health and achieve better patient outcomes This book equips the clinical pharmacist with the tools knowledge and practical strategies to help overcome any challenging scenario you may encounter in practice A preview of the Handbook's purpose and objectives The handbook aims to provide pharmacists with information that fully supports them in delivering quality care to patients in the context of an everchanging health system This resource provides clinical decision making information and patient counseling based on best practice We also need to reemphasize building positive relationships with patients and healthcare providers and fellow team members of the interdisciplinary team MTM The Future of Healthcare in the Vial of Medicine MTM optimizes patient outcomes in the growing complexity of drug therapeutics Pharmacists are the experts who analyze monitor and adjust medication therapies to ensure patients receive the best therapy at the lowest risk As medication therapy managers pharmacists help to prevent adverse drug events hospital readmissions and medication non adherence leading in the end to improved health outcomes and decreased health care costs

*Demystifying Opioid Conversion Calculations: A Guide for Effective Dosing* Mary Lynn McPherson, 2018-08-28 Praised by practitioners students and instructors for its engaging approach to teaching a very complex subject *Demystifying Opioid Conversion Calculations A Guide for Effective Dosing* has long been the go to guide for learning how to calculate opioid conversions Now in its second edition this reference is a must have for clinicians involved in pain management at all levels Written by pain management expert Mary Lynn McPherson PharmD MA MDE BCPS CPE *Demystifying Opioid Conversion Calculations* focuses on the calculations that practitioners use in actual practice providing realistic scenarios for decision making The revised edition covers the entire spectrum of opioid analgesics used to manage patients with moderate to severe pain and serious life limiting illnesses

*Drug Information: A Guide for Pharmacists, Sixth Edition* Patrick M. Malone, Meghan J. Malone, Sharon K. Park, 2017-12-13 The guide pharmacists and students turn to first for cutting edge coverage of drug information A Doody's Core Title for 2021 The goal of *Drug Information A Guide for Pharmacists Sixth Edition* is to teach students and practitioners how to effectively research interpret evaluate collate and disseminate drug information in the most efficient and effective manner possible Updated to reflect the realities of today's practice the book also addresses important issues such as the legal and ethical considerations of providing drug information *Drug Information A Guide for Pharmacists* begins by introducing the concept of drug information including its history and provides details on the various places drug information specialists may find employment This is followed by information on how to answer a question from the process of gathering necessary background information through determining the actual informational need to answering the question The chapter on drug information resources includes

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**Pharmaceutics-I Practical Manual - PCI-Based Experiments for First-Year B.Pharm** Dr. Payal Nileshbhai Vaja, 2025-08-08 Here s a summary of the book details Book Details Title Pharmaceutics I Practical Manual PCI Based Experiments for First Year B Pharm Target Audience Pharmacy Students Book Summary This practical manual is designed to provide hands on experience with PCI based experiments in pharmaceutics covering essential topics and techniques for first year B Pharm students The book likely includes detailed experiments procedures and guidelines to help students understand and apply pharmaceutics concepts in a laboratory setting

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