

# MEDICATION

## Math



### DRUG CALCULATION FORMULAS

#### CONVERSION KEY

1 mL = 1 cc

1 L = 1,000 mL

1 mg = 1,000 mcg

1 gm = 1,000 mg

1 tsp = 5 mL

3 tsp = 1 tbspo

1 kg = 1,000 g

1 oz = 2 tbspo

50 mL = 1 oz

1 mcg = 1 mg

2.2 lbs = 2.2 kg

1 tbspo = 15 mL



#### MIXTURES & SOLUTIONS

$$\frac{\text{DESIRED DOSE}}{\text{STOCK STRENGTH}} \times \text{STOCK VOLUME} = \text{AMOUNT TO BE GIVEN}$$



#### TABLET DOSAGES

$$\frac{\text{DESIRED DOSE}}{\text{STOCK STRENGTH}} = \text{NUMBER OF TABLETS}$$



#### IV RATES

ML PER HR & MIN:

$$\frac{\text{TOTAL IV VOLUME}}{\text{TIME (HR or MIN)}} = \text{ML PER HOUR OR MINUTE}$$



DROPS PER MIN:

$$\frac{\text{TOTAL IV VOLUME}}{\text{TIME (MIN)}} \times \text{DROP FACTOR} = \text{DROPS PER MINUTE}$$

REMAINING INFUSION TIME:

$$\frac{\text{VOLUME REMAINING (ML)}}{\text{DROPS PER MINUTE}} \times \text{DROP FACTOR} = \text{MINUTES REMAINING}$$

# Nursing Med Math Study Guide

**RJ Shavelson**

## Nursing Med Math Study Guide:

**Nursing Math Guide (Speedy Study Guide)** Speedy Publishing, 2014-12-07 Preparing for any exam is much easier when all the necessary materials are neat and organized. A nursing math study guide has a good bit of the information needed all in one spot. These study guides are written to include the most important information in the most relevant order. Students do not have to go searching through textbooks and piles of unorganized notes and won't possibly lose their train of thought with the appropriate study guide at their finger tips.

*Clayton's Basic Pharmacology for Nurses - E-Book* Michelle J.

Willihnganz, Samuel L. Gurevitz, Bruce D. Clayton, 2019-03-01 Master the basic principles of pharmacology and safe medication administration with Clayton's Basic Pharmacology for Nurses 18th Edition. Known for its impeccably accurate and up-to-date drug content, this best-selling text consistently underscores medication safety as it guides you in applying pharmacology information to the nursing process. Introductory units acquaint you with the basic principles of pharmacology and medication administration while subsequent body system units prepare you to apply the nursing process to every major disorder. Clear guidelines cover safe drug handling, the types of drugs used for disorders or to affect body systems, injection and enteral administration, and patient education. From a respected author team, this full-color text also provides an excellent review for the pharmacology questions on the NCLEX examination. Medication safety is underscored through Medication Safety Alerts and Clinical Pitfall boxes, as well as Do Not Confuse and High Alert icons. Unit on medication administration clearly and visually outlines assessment techniques, procedures, and documentation for safe administration of percutaneous, enteral, and parenteral drugs. Application of the nursing process offers an overview of general principles of nursing care for each disorder, as well as specific nursing considerations for the drug treatment. Lifespan Considerations boxes for children and for older adults draw attention to information that would be especially important when giving a specific drug to patients of those age groups. Drug tables clearly outline generic and brand names, availability, and dosage ranges for key medications for each disorder. Clinical Goldmine boxes focus on best practices in the clinical setting. Get Ready for the NCLEX Examination section at the end of each chapter covers key points from the chapter as well as review questions to help prepare for course assessments and the NCLEX examination. Video clips on medication administration procedures provide a visual reference for safe medication administration. Key terms with phonetic pronunciations and text page references are listed at the beginning of each chapter. NEW Chapter on Neurodegenerative Disorders covers drugs for dementia and Alzheimer's Disease. NEW Updated guidelines on diabetes, heart failure, asthma, COPD, and cancer ensure readers are versed in the latest treatment protocols. NEW Accurate and up-to-date coverage includes the most recent FDA approvals, withdrawals, therapeutic uses, and content on cultural considerations related to each drug class.

*Study Guide for Pharmacology* Joyce LeFever Kee, 2003  
**Math for Med Techs [a Programmed Manual]** Joanne R. Bobek, 1973  
**Study Guide to Accompany Pharmacology for Nursing Care** Marshal Shlafer, Richard A. Lehne, 2004

This study guide features high

claiber learning activities that apply the renowned Dr Marshal Shlafer s rich experience in teaching pharmacology to a wide range of student learning styles Resources in education ,1984-07 **Clinical Drug Therapy** Anne Collins Abrams,1995 This popular core nursing pharmacology textbook provides unique coverage of nursing interventions for drug therapy with related rationales Highly praised for its organized and readable presentation the text explains the why behind each nursing action and emphasizes how drugs work differently in different patients New to the Eighth Edition are case studies integrated into each chapter with case based questions that foster critical thinking New Research Briefs summarize current research and its nursing implications A new chapter covers drugs for obesity and all nutrition products have been consolidated into one chapter New NCLEX style questions appear at the end of each drug chapter

**The Journal of Practical Nursing** ,1991 *Basic Pharmacology for Nurses - E-Book* Michelle J. Willihnganz,Bruce D. Clayton,2016-02-25 Known for its accurate up to date drug content and its practical application of the nursing process to drugs and disorders Clayton and Willihnganz s Basic Pharmacology for Nurses 17th Edition prepares you for safe medication administration Emphasizing the nurse s role clear guidelines cover safe drug handling types of drugs used for disorders or to affect body systems injection and enteral administration and patient education From a respected PharmD Nursing author team this full color text also provides an excellent review for the pharmacology questions on the NCLEX examination Current accurate content ensures that the most current drugs and treatment protocols are presented Application of the nursing process includes general principles of nursing care for each disorder along with nursing considerations for drug treatment plans An emphasis on safe drug handling and administration includes High Alert and Do Not Confuse icons as well as Medication Safety Alert boxes A focus on patient education and health promotion equips you for health teaching related to medications NCLEX preparation sections at the end of each chapter helps you get ready for pharmacology related questions on the NCLEX examination A study guide corresponds to the textbook and offers review questions and clinical scenarios to reinforce your understanding of nursing pharmacology Available separately UPDATED drug coverage includes the most recent FDA approvals withdrawals and therapeutic uses UPDATED guidelines cover injection and enteral medication administration with an emphasis on safe medication practice UPDATED treatment protocols include specific conditions such as asthma hyperlipidemia heart failure COPD and cancer NEW Objectives and key terms are listed at the beginning of each chapter making it easy to see chapter content at a glance Math for Nurses Mary Jo Boyer,2012 Compact and easy to use Math for Nurses is a pocket sized guide reference to dosage calculation and drug administration It includes a review of basic math skills measurement systems and drug calculations preparations Math for Nurses helps students to calculate dosages accurately and improve the accuracy of drug delivery The author uses a step by step approach with frequent examples to illustrate problem solving and practical applications Readers will find it great for use in the clinical setting or as a study aid Practice problems throughout the text and end of chapter and end of unit review questions will aid students application and recall of material A handy pull out card

contains basic equivalents conversion factors and math formulas     [Basic Pharmacology for Nurses](#) Bruce D. Clayton, Yvonne N. Stock, 2001 A new chapter on Nutrition contains up to date information on nutritional implications in pharmacology and drug food interactions as they relate to patient education as well as an overall treatment plan Numerous topics such as diabetes mellitus prostatic hyperplasia erectile dysfunction oral contraceptives and obstetrics have been thoroughly updated with cutting edge information BOOK JACKET     [Basic Pharmacology for Nurses - E-Book](#) Michelle Willihnganz, Bruce D. Clayton, 2014-05-01 Basic Pharmacology for Nurses is a modern classic Known for its impeccably accurate drug content and practical applications of the nursing process this trusted text consistently emphasizes health promotion through monitoring and patient education Introductory units ground your knowledge in the basic principles of pharmacology and medication administration while subsequent body system units prepare you to apply the nursing process to every major disorder UNIQUE Two tiered application of the nursing process provides the general principles of care along with specific nursing implications for each drug class or individual drug Meticulously accurate and updated drug content keeps the book in step with the latest FDA approvals withdrawals and changes in therapeutic uses UNIQUE Introduction to Cardiovascular Disease and Metabolic Syndrome sets the stage for an understanding of the progression of cardiovascular disease and the pharmacologic treatment of that progression UNIQUE Patient Teaching boxes equip you for health teaching related to medications LPN Threads design presents information in an easy to understand and visually engaging manner NEW Increased emphasis on medication safety prepares you for a clinical environment that is more focused than ever on reducing drug errors NEW Updated and added coverage keeps you up to date with the latest information on genetics pharmacogenomics and racial gender factors in drug actions     [Subject Guide to Books in Print](#) , 1996     **Paperbacks in Print** , 1975     [Math For Nurses](#) Mary Jo Boyer, 2019-09-16 Quickly Access Everything You Need to Calculate Dosages Effectively and Ensure Accurate Drug Delivery Current compact and easy to use Math for Nurses helps you perfect the basic math skills measurement systems and drug calculations preparations essential to successful nursing practice Packed with real clinical examples and practice problems this pocket sized reference guides you step by step through the problem solving and practical applications required in the nursing workplace A handy pull out quick reference card delivers fast access to basic equivalents conversion factors and math formulas Comprehensive dosage calculation coverage familiarizes you with ratio proportion formula and dimensional analysis methods of arriving at calculations Practice problems throughout the text and review questions at the end of each chapter and unit test your retention and application capabilities 300 additional Practice Problems and Answers available online through thePoint further enhance learning and retention Learning Objectives focus your study and review on essential concepts and practices Critical Thinking Checks help you analyze your results to dosage problems and ensure understanding of key content     **Peterson's Guide to Two-Year Colleges, 1996** Peterson's Guides, Inc, 1995-08-26 A Comprehensive guide to the more than 1 600 junior and community colleges in the U S and Canada

as well as general information about application older students financial aid and other topics      **Calculation of Drug Dosages** Ruth K. Radcliff,1990-10      **Handbook of Ear, Nose, and Throat Emergencies** Meshach Haskell Newman,Nels R. Olson,Earl F. Singleton,1973      *Self-assessment of Current Knowledge in Nephrology* Arthur V. Williams,1974  
*Directory of Educational Software* Christine Bolwell,1993

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