

Dosage Calculation Practice Problems – 2014

The following questions are very similar to the types of calculations you'll be asked to perform on the midterm and final exams and your professional practice.

Final solutions to all questions have been given in bold. Be sure to work through these calculations along with the pharmacology e-module "Core Concepts in Pharmacology".

1. Navneet, a 75 kg patient, has just undergone surgery and requires an IV infusion of an antibiotic to treat a post-operative infection. The drug monograph gives you the following information:

$Cl = 2.34 \text{ L/hour}$

$V_d = 20 \text{ L}$

Therapeutic range = 2 mg/L – 5 mg/L

What is the half-life of the drug? (**Answer: 5.9 h**)

If the concentration of drug in Navneet's plasma is measured to be 100 mg/L, what is the concentration of the drug after 4 hours? (**Answer: 62.6 mg/L**)

2. Thom, a 70 kg patient has been prescribed an anti-inflammatory drug with the following information printed on its monograph:

$V_d = 50 \text{ L}$

Half-life ($t_{1/2}$) = 3 h

Therapeutic range = 1 mg/L – 3.5 mg/L

What is the dosing interval (**Answer: 5.4 h**)? What is the maintenance dose of this drug (**Answer: 141 mg**)?

3. Phil weighs 65 kg. He is taking an NSAID with the following properties:

$V_d = 1.5 \text{ L/kg}$

Half-life ($t_{1/2}$) = 5 h

Therapeutic range = 2.6 mg/L – 3.5 mg/L

What is the loading dose of the drug (**Answer: 341.3 mg**)? What is the clearance of the drug (**Answer: 13.5 L/hr**)?

1dosage Calculations Practice Problems

Tania N. Killian



1dosage Calculations Practice Problems:

Medical Mathematics and Dosage Calculations for Veterinary Professionals Robert Bill, 2013-03-22 Medical Mathematics and Dosage Calculations for Veterinary Professionals Second Edition is an updated and revised version of the essential pocket size reference for using math in the veterinary setting Covering a range of topics from math fundamentals to drug prescription and dosing information the book provides step by step instructions for calculating dosages drip rates concentrations and other drug administration information Medical Mathematics and Dosage Calculations for Veterinary Professionals is a useful guide for veterinary health care professionals veterinary students and veterinary technicians

Math and Dosage Calculations for Medical Careers' 2007 Ed. 2007 Edition , Medical Mathematics and Dosage Calculations for Veterinary Technicians Robert Bill, 2019-02-06 This user friendly guide to medical mathematics helps veterinary technician students develop the math skills required before going into the practice setting New workbook format allows readers to practice problems right inside the book Covers math fundamentals metric and non metric conversions dosing and concentration IV drug infusion prescriptions and doctors orders Offers step by step instructions for performing calculations Newly expanded to include calculation of constant rate infusions dilutions compounding and anesthesia applications Features a full answer key and images from the book in PowerPoint for instructors on a companion website The text is organized to help readers with rudimentary math skills as well as those who just need a little review on how to perform medically related mathematical calculations Overall this is a well organized textbook that will help students at all levels of mathematic competency navigate the sometimes challenging area of medical calculations JAVMA Vol 255 No 6

Dosage Calculations Made Easy Gloria Pearl Craig, 2024-01-19 Straightforward approachable and rich with practice opportunities Dosage Calculations Made Easy Solving Problems Using Dimensional Analysis 8th Edition trains students to confidently calculate accurate medication dosages and fosters the critical thinking capabilities essential to their clinical success From basic math functions and measurement systems to complex problem solving methods this up to date simple to use skill building guide provides a proven framework for understanding and makes it easier than ever to master effective dosage calculation and drug administration processes *Dosage Calculations Made Easy for Nursing Students* Stanley Lawrence Richardson, Are you a nursing student struggling with medication math and dreading your next dosage calculation exam Master dosage calculations the safe and easy way with this comprehensive workbook featuring 500 practice problems designed specifically for nursing students This step by step guide transforms complex calculations into simple manageable processes that build your confidence from basic math review through advanced clinical scenarios Inside this essential nursing companion you ll discover Three proven calculation methods dimensional analysis ratio proportion and formula method straight nursing student explained in clear anxiety reducing language 500 practice problems with complete solutions and detailed explanations for every step Progressive difficulty levels starting with basic conversions and advancing to

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Medication Mathematics Karen Glaister,1997 This resource for student nurses contains clinically oriented dosage calculations It is divided into modules with categories such as intravenous therapy calculations and paediatric dosage calculations Refers to medications and equipment commonly used in Australia with drug information conforming to Australian standards The author has 20 years experience in the nursing profession and is involved in nursing education at Curtin University of Technology *Calculation of Drug Dosages - E-Book* Sheila J. Ogden,Linda Fluharty,2015-01-29 Known for its textbook workbook format Calculation of Drug Dosages 10th Edition makes it easy to master the ratio and proportion formula and dimensional analysis methods for drug calculation A basic review of mathematics refreshes your math skills and plenty of practice problems help you overcome any inexperience or weaknesses you may have Written by nursing experts Sheila Ogden and Linda Fluharty this resource helps you calculate drug dosages accurately and with confidence An extensive math review covers the basic math skills essential for accurate calculation of drug dosages and helps you identify your strengths and weaknesses Over 1 800 practice problems reinforce your understanding of drug calculations A logical structure is organized from simple to complex making it easier to absorb and retain knowledge Learning objectives keep you focused and explain what you should accomplish upon completion of each chapter An Alert box highlights information crucial to math calculation and patient safety Chapter worksheets allow you to practice solving realistic problems Post tests at the end of each chapter let you assess your understanding of content A comprehensive post test at the end of the book offers additional practice and accurately gauges your overall understanding Over 600 practice problems on the Evolve companion website cover ratio proportion formula and dimensional analysis methods 25 flash cards on Evolve contain abbreviations formulas and conversions from the book allowing you to study at your own pace UPDATED drug labels and equipment photos show the latest drugs and technology used in the market NEW Additional Intake and Output problems are included and the apothecary method is minimized and moved to the appendix NEW Easy access answer key is placed at the end of each chapter rather than in the back of the book Gray Morris's Calculate with Confidence, Canadian Edition - E-Book Tania N.

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Morris, 2021-09-30 Learn how to make accurate drug calculations and administer medications safely Calculate with Confidence 8th Edition makes it easy to understand the three major methods of dosage calculation ratio and proportion formula method and dimensional analysis Clear step by step instructions guide you through accurate calculation and safe administration of drug dosages Thousands of practice problems ensure that you gain proficiency QSEN principles prioritize client safety and an emphasis on clinical reasoning helps you prevent medication errors New Next Generation NCLEX NGN case studies help in improving clinical judgment skills With this popular text from educator Deborah C Morris you will learn to calculate drug dosages and administer medications with confidence Thousands of practice problems ensure that you gain

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