

Test your drug calculations

This month, the 'Did you know' leaflets will be a quick, self-administered quiz to test your knowledge of drug calculations.

The answers to these calculations and the formulae will be available in 2 weeks time so you can see how you did! Keep a look out for those answers and **GOOD LUCK!**

Dosage Calculations

1. A patient has been prescribed 500mg of a drug - tablets available are 250mg. How many tablets will you give?
2. 50mg of a drug is prescribed - tablets are 12.5mg each. How many tablets will you give?
3. 625mg of a drug is prescribed - tablets are 1.25g each. How many tablets will you give?
4. Linchut is available as 20mg/5ml - the patient is prescribed 50mg. What volume will be given?
5. Drug available as 5mg/ml - the patient is prescribed 40mg. How many ml will be given?
6. Drug available as 20 mg/ml - how many mg is there in 4ml?

Intravenous Infusions

7. Calculate the drop rate per minute for a 500ml 4 hourly bag of clear fluids using a solution set (20 drops = 1ml).
8. Calculate the drop rate per minute for a 750ml 5 hourly bag of clear fluids using a solution set (20 drops = 1ml).

Intravenous Drugs

9. Amiodarone infusion 400mg in 200ml and the flow rate is 20ml/hr. Calculate the hourly dose?
10. Furosemide infusion 120mg in 50ml and the flow rate is 20ml/hr. Calculate the hourly dose?
11. Adrenaline infusion 30mg in 200mls. Flow rate of 20mls/hr. Patient's weight is 55kg. Calculate the dose in mcg/kg/min.
12. Dopamine infusion 20mg in 200mls. Flow rate of 20mls/hr. Patient's weight is 70kg. Calculate the dose in mcg/kg/min.

If you have any ideas for future information leaflets on nursing issues, please email Bridget.Wray@bcrhospitals.nhs.uk

Tricky Medication Calculations

Xiaolong Qi



Tricky Medication Calculations:

Medical Dosage Calculations For Dummies Richard Snyder, Barry Schoenborn, 2011-05-03 Score your highest in a medical dosage calculations course A recent shortage of nurses in a society with an aging population has triggered the demand for students to enter the field of medical study A dosage calculations course is required for most students earning an applied science degree in nursing pharmacology or paramedic programs *Medical Dosage Calculations For Dummies* tracks a typical dosage calculations course and provides helpful content in an approachable and easy to understand format Plus you'll get examples of the various calculations made to determine the appropriate quantity of drug or solution that should be administered to patients Calculating drug dosages utilizing ratio proportion formula and dimensional analysis Systems of measurement including metric and apothecary and other conversion equivalents for a global audience The ins and outs of the charting systems for MAR Medicine Administration Records If you're one of the hundreds of thousands of students aspiring to enter the medical field *Medical Dosage Calculations For Dummies* is your ticket for scoring your highest on exams

Paramedic: Calculations for Medication Administration American Academy of Orthopaedic Surgeons (AAOS), Mithriel Salmon, David S. Pomerantz, 2008-10-13 I love math I hate math Whether you're a math aficionado or someone who cringes at calculations *Paramedic Calculations for Medication Administration* will make you a master of paramedic math This textbook teaches the basic principles of mathematics and applies these principles to cases that paramedics face on the job Chapters cover math rules and principles fractions decimals and percentages ratios proportions and conversion factors and rate dependent and weight based calculations Practice problems are scattered throughout the chapters students practice as they go Every chapter highlights how paramedics can make use of the math knowledge that they already have in order to solve more complicated problems Chapters begin with the simple and obvious and progress to the level used in the field Practice makes perfect this text has over 700 practice problems In addition to the in chapter practice chapters conclude with more problems Complete answers to every problem including explanations are provided in the answer key Every step is included making it easy to follow how an answer was reached Part of the AAOS Paramedic Series covers all the DOT objectives related to calculations for medication administration and can be used in prerequisite or co-requisite paramedic math courses 2009 224 pages

[Dosage Calculations](#) Lippincott Williams & Wilkins, 2006-10-01 *Dosage Calculations An Incredibly Easy Pocket Guide* provides time starved nurses with critical information on calculating dosages accurately in a streamlined bulleted quick reference format The book is pocket sized for easy reference anytime anywhere and uses illustrations logos and other *Incredibly Easy* features to help nurses grasp key points quickly Chapters cover math basics measurement systems drug administration oral topical and rectal drugs parenteral drugs I V infusions and calculations for pediatric obstetric and critical care patients Logos include Dodging Drug Dangers advice on avoiding drug errors Help Desk best practices tips Calculation Clues aids for overcoming math phobias and Memory Jogger helpful mnemonics

Dosage Calculations Demystified Jim

Keogh,2008-12-14 More than 100 000 nursing students must pass a series of dosage calculation exams annually in their regular courses Part of the popular Demystified series which has sold more than one million copies **Dosage**

Calculations Made Incredibly Easy! Kimberly Giddings,2024-08-19 Designed to help health care professionals who are looking for a simple step by step approach to math calculations Dosage Calculations Made Incredibly Easy 6th edition is a fully illustrated guide that offers the complete how to on calculating dosages for all drug forms and administration routes

The Ultimate Pharmacy Calculations Guide Pharmacy CPA,2014-05-28 This book has been created for students wanting to take pharmacy registration assessment exams and become a licensed pharmacist Calculations are often considered as the hardest part of any pharmacy orientated exam and is often the main reason for exam failure For this reason we have collected a team of highly skilled pharmacy professionals to compile and refine this book to ensure it presents what you really need to know In this book we explore the wide range of questions which can be presented during exams such as the GPhC Naplex PEBC FPGEE and many more The book not only contains questions and learning resources but also worksheet for you to practically apply the knowledge you have learnt The key sections in this book include The basics behind pharmacy calculations Exponents and scientific calculations Conversions Medical abbreviations Dosage Concentration Infusion Alligation Body weight and surface area Paediatric dosages Mixing liquid preparations

Pharmacoeconomics *Clinical Dosage Calculations* Vanessa Brotto,Kate Rafferty,2019-11-18 Clinical Dosage Calculations is a locally written full colour text covering the important aspects of dosage calculations that students require to perform this essential part of clinical practice An applied skills focused text Brotto uses real life cases worked examples and real medication charts and labels to engage students Using a scaffolded approach to learning the text starts with fundamental maths and familiarises students with medication charts and labels then moves on to specialist area chapters allowing learners to deepen their skills in a clinical context Students engage in the activities of each chapter as an introduction to the concept before moving onto the final chapter where they can test their overall knowledge Clinical Dosage Calculations 4e

,2024-10-01 Clinical Dosage Calculations 4e by Brotto and Rafferty is a practical portable reference for nursing students This text covers the basic mathematics and essential knowledge and skills to undertake the safe and accurate calculation of medication administration Clinical Dosage Calculations is designed with an incremental scaffolded approach to learning and mastering numeracy from basic arithmetic to more specialised calculations It helps students deal with this vital part of clinical practice by using real life cases worked examples and actual drug charts and medication labels providing students with context for the challenging task of calculating the correct dose to administer to patients Premium online teaching and learning tools are available on the MindTap platform Learn more about the online tools au cengage com mindtap Instructor resources include solutions manual PowerPoints and Testbank **Math and Dosage Calculations for Medical Careers'**

2007 Ed.2007 Edition , Dosage Calculations and Basic Math for Nurses Demystified, Second Edition Jim

Keogh,2015-06-22 The Demystified way to master dosage calculations and related basic math Written by a graduate nurse instructor and bestselling author Dosage Calculations and Basic Math for Nurses Demystified Second Edition covers medication orders and medication labels and explains how to calculate doses using the formula method and the ratio proportion method Readers will get details on I V calculations pediatric doses and enteral tube feeding The book also covers dosage calculations for commonly prescribed drugs including Heparin and dopamine Hundreds of examples make it easy to understand the material and NCLEX style practice questions help reinforce learning Dosage Calculations and Basic Math for Nurses Demystified is made more valuable by a concise review of basic math skills essential for daily practice including equations percentages proportions decimals and fractions Simple enough for a beginner but challenging enough for an advanced student Dosage Calculations and Basic Math for Nurses Demystified is the fun fast and effective way to learn this vital nursing skill Includes coverage of I V therapy Measurements in SI units for international appeal A time saving approach to performing better on an exam or at work *Med Math Simplified - Second Edition* Jamie Davis, RN, NRP, BA, AAS,2017-10-02 Struggling with medication math in nursing or paramedic school Worried you've calculated the wrong medication dose for your patient This book is for you Med Math Simplified represents the hard lessons learned by the author while becoming a paramedic and later a nurse It uses the concepts of dimensional analysis with a good old common sense approach to learning the math and formulas needed to safely and correctly arrive at drug doses for your patients This book was originally created as part of an online video course where Jamie took viewers on a step by step tour of the problems and equations in the program Many of his audience members wanted a resource they could take with them after the course to review and practice the skills learned in the video program Thus the eBook and paperback book versions of the program were born **Medication Misuse Effects** Felicia Dunbar, AI,2025-02-21 Medication Misuse Effects explores the significant public health problem of improper medication use and its wide ranging consequences It examines how seemingly harmless medications can lead to adverse health outcomes such as organ damage and cognitive impairment and contribute to increased healthcare expenditure A key insight is the substantial economic impact on families and society due to lost productivity and strain on social welfare highlighting that medication misuse affects individuals across all socioeconomic backgrounds The book adopts a fact based approach beginning by defining medication misuse and its various forms before progressing to explore adverse health outcomes and societal costs in detail It synthesizes findings from clinical studies epidemiological data and economic analyses to provide a comprehensive overview Ultimately the book emphasizes the need for improved patient education enhanced prescribing practices and stronger regulatory oversight to promote medication safety and reduce the burdens associated with medication misuse Paramedic Andrew N. Pollak, MD, FAAOS, Mithriel Salmon, BS, MT (ASCP), NREMT-P, LP and David S. Pomerantz, NREMT-B, EMT-P, **Dosage Calculations** Gloria D. Pickar,1993 *Dosage Calculations Made Incredibly Easy!* Lippincott Williams & Wilkins,2015-09-24 Dosage Calculations

Made Incredibly Easy contains everything health care practitioners need to review and students need to learn about calculating drug dosages This entertaining and informative reference reviews the basic math needed to perform dosage calculation including fractions decimals percentages ratios and proportions It walks the nurse through the interpretation of hundreds of examples of drug orders and the performance of hundreds of complex dosage calculations and provides information on deciphering difficult abbreviations dealing with unclear handwriting reading medication labels selecting administration equipment and more *Pharmacy Calculations 6th Edition* Mary F. Powers, David R. Bright, 2020-01-01

Pharmacy Calculations 6e provides pharmacy technician students and professionals with the tools necessary to learn the types of calculations commonly encountered in community and institutional pharmacy The content of *Pharmacy Calculations 6e* includes material covering the knowledge areas within the Pharmacy Technician Certification Exam PTCE and Exam for Certification of Pharmacy Technicians ExCPT This book is clearly written accurate and easy to understand It can be used in a classroom setting or for independent study to develop a careful and systematic approach to pharmacy calculations and can be used as a study aid for the PTCE and ExCPT exams It aligns with the Fifth Edition of the American Society of Health System Pharmacists ASHP Model Curriculum for Pharmacy Technician Education and Training Programs and the 2020 content outline for the Pharmacy Technician Certification Examination PTCE **Henke's Med-Math** Susan Buchholz, 2023-08-16

Henke's Med Math Dosage Calculation Preparation and Administration 10th Edition offers a highly visual hands on approach to mastering dosage calculation and the principles of drug administration Rich with side by side comparisons engaging animations and dosage calculation problems this dynamic new edition guides students step by step through the problem solving process and builds clinical proficiency for confident dosage calculation and medication administration *Dosage Calculations in SI Units* Maureen J. Osis, Maureen Osis, 1995

DOSAGE CALCULATIONS IN SI UNITS is a reference for nursing students and practitioners who want individual self paced instruction on calculations for medication administration The book features a clear concise presentation on skills required for dosage calculation basic concepts for competency in calculations and self evaluation and self paced learning Numerous case studies presenting detailed patient situations are included which provide realistic clinically relevant information *Drug Calculations for Nurses* Kerri Wright, 2011-05-11

This innovative text uses a common sense approach to introduce students to real life medication problems Featuring a range of exercises and assessments and supported by an interactive companion website this is the perfect handbook for anyone seeking to improve their numeracy skills for medication administration **Nursing Calculations and IV Therapy For Dummies - UK** Claire Boyd, 2016-03-21

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