

DOSAGE CALCULATION

Printable PDF

DOSAGE CALCULATION

CONVERSIONS

1 kg = 1000 g
 1000 mg = 1 g
 1000 mcg = 1 mg
 1000 µl = 1 ml
 1 mg = 1000 µg
 1 g = 1000 mg
 1 ml = 1000 µl
 1 cup = 8 fl oz

ORAL 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

$$\frac{\text{Quantity}}{\text{Available Dose}} \times \frac{\text{Desired Dose}}{1} = X$$

Example

Quantity Available: 1 Tablet
 Dose Available: 250 mg
 Desired Dose: 500 mg

Solve:

$$\frac{1 \text{ Tablet}}{250 \text{ mg}} \times \frac{500 \text{ mg}}{1} = 2 \text{ Tablets}$$

LIQUID DOSAGE CALCULATION

To administer 500 mg of erythropoietin that is available in a dose of 250mg/ml.

Solve:

$$\frac{1 \text{ ml}}{250 \text{ mg}} \times \frac{500 \text{ mg}}{1} = 2 \text{ ml}$$

2 ml of erythropoietin will be administered.

INTRAVENOUS DOSAGE CALCULATION

Order: Administer 50mg of Benzol every 4 hrs.
The available dose of Benzol is 100mg/ml.

Solve:

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

WEIGHT-BASED DOSAGE CALCULATION

Order: Administer Amoxicillin 40mg/kg in 2 doses.
The available dose of Amoxicillin is 400mg/5ml.
Weight of patient is 20 kg.

To calculate the dose to be given to a child weighing 20 kg first calculate the dose to be given in mg.

$$\frac{40 \text{ mg}}{1 \text{ kg}} \times \frac{20 \text{ kg}}{1} = 800 \text{ mg}$$

Divide the dose with frequency: $\frac{800 \text{ mg}}{2}$ as 400mg

IV FLOW RATE

IV Flow mL/hr

Order: Administer 5,000units of 2500 in 10 hours

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Desired}}{\text{Stock}} = \frac{\text{Desired}}{\text{Time}}$$

IV Flow g/hr/min

Order: Administer 5,000units of 2500 in 10 hours (infuse)
Drop Factor 15 g/ml

$$\frac{\text{Volume}}{\text{Time}} \times \frac{\text{Desired}}{\text{Stock}} = \frac{\text{Desired}}{\text{Time}}$$

EXAMPLES

Example: Suspension 100 mg per ml available. The nurse has a prescription for 200 mg. How much dose she will administer?

$$\frac{1 \text{ ml}}{100 \text{ mg}} \times \frac{200 \text{ mg}}{1} = 2 \text{ ml}$$

Example: 0.5 mg/kg for a child weighing 20 kg. How much dose will be administered?

Example: 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
 qhs = every 8 hrs
 qd = every 24 hrs
 prn = as needed
 po = before meals
 pc = after meals
 qd = Every day
 qm = per night
 qn = per week
 tab = Tablet
 cap = Capsule
 sup = Suppository

Drug Calculation Guide For Nurses

Doctor Jimmy S. Roland



Drug Calculation Guide For Nurses:

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

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[A Nurse's Guide to Dosage Calculation](#) Vicki Niblett, 2006 This dosage calculations textbook is designed expressly for use in Canadian schools of nursing It teaches three methods of dosage calculation ratio and proportion cross multiplying of fractions and formula using the SI Unit system of measurement Plentiful sample questions from across nursing care settings with clear use of the three calculation approaches give students immediate opportunity to practice each step taught Canadian drug trade names are used throughout the text The book includes self tests to help students identify areas that require further practice Make a Note boxes reinforce underlying theory Keep It Safe boxes emphasize important elements of safe practice

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Doctor Jimmy S. Roland,2019-03-28 Nursing Drug Calculations Made Easy Comprehensive Guide to Understand the Easy Way Approach Plus all You Need to Know About the Basics of Drug Calculations as it will show you a step by step guide with practical questions and answers on how this can be done Essentially maths skills are supposed to be possessed by student nurse or doctor and other professional in this noble profession of medicine nursing or pharmacy And when a nurse or pharmacist misses the drug calculations the effect of this error will negatively tell on a patient immediately Consequently the nurse or pharmacist competence becomes questionable or doubtful Therefore there is need to master or get used to the vital as well as relevant calculations and their necessary formulas Additionally these drug calculations may be quite hard or easy for some to get correctly hence there is great need to break them right into simpler as well as little steps that will really help those who need it And just to let you know drug calculations course are now part and parcel of the nursing and medical fields hence there is great relevance to understand master and apply them as expected Again the absence of mathematical skills or even errors made during drug calculations can cost you your job therefore there is need to master and apply these formulas and procedures correctly to get the desired results And save you of unwarranted problems that should have being avoided totally if you have adequate knowledge of drug calculations plus their formulas Lastly this guide will reveal to you how the calculations are done plus how one can conveniently master these relevant formulas once and for all and make them part and parcel of you These and other relevant things are carefully talked about in this breath taking guide Download this book by scrolling up and clicking BUY NOW to get this book today You won t regret you did **Medical Dosage Calculations** June Looby Olsen,Anthony Patrick Giangrasso,Dolores M. Shrimpton,2004 The eight edition of Medical Dosage Calculations will continue to be a friendly workbook approach using dimensional analysis This has become the primary dosage calculation technique among nursing and allied health students *Calculating Drug Doses Safely* George Downie,Jean Mackenzie (RGN.),Arthur Williams,2006 This text helps members of the medical profession to make accurate drug calculations and aims to help to improve patient safety It is designed for the needs of both student nurses and registered nurses **Math for Nurses** Mary Jo Boyer,Marie Clark,1991 [Drug Calculations for Nurses](#) Robert William Lapham,Heather Agar,1995-08-01 *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 **Clinical Calculations** Joyce LeFever Kee, Sally M. Marshall, 2016-01-25 Accurate drug calculations start here Clinical Calculations With Applications to General and Specialty Areas 8th Edition covers all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis It also includes practice problems not only for general care but also for specialty areas such as pediatrics and critical care A new chapter covers insulin administration and concise illustrated information includes the latest medications drug administration techniques and devices Written by a team of experts led by Joyce Kee Clinical Calculations makes it easy to understand drug calculation and emphasizes patient safety above all else Coverage of all four major drug calculation methods ratio proportion formula fractional equation and dimensional analysis allows you to apply the method that works best for you Updated information on drug administration techniques and devices helps you master the latest techniques of drug administration including oral intravenous intra muscular subcutaneous and other routes Updated drug information ensures you are familiar with the most commonly used drugs in clinical practice Caution boxes alert you to problems or issues related to various drugs and their administration Information on infusion pumps enteral single multi channel PCA and insulin helps you understand their use in drug administration Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric critical care labor and delivery and community settings Detailed full color photos and illustrations show the most current equipment for IV therapy the latest types of pumps and the newest syringes A comprehensive post test allows you to test your knowledge of key concepts from the text NEW Insulin Administration chapter provides a guide to administering injectable drugs NEW practice problems drugs drug labels and photos keep you up to date with today s clinical practice NEW Updated QSEN guidelines and The Joint Commission standards help in reducing medication errors and in providing safe patient care Drug Calculations & Drug Administration Cynthia C. Chernecky, Mother Helena Infortuna, Denise Macklin, 2006 Designed to be a study and review series to help you get through the nursing school jungle With this tool in your hands you ll have no trouble mastering the complexities of drug calculations and oral intramuscular subcutaneous topical and intravenous drug administration *Dosage Calculations Made Incredibly Easy!* Lippincott Williams & Wilkins, 2005 The thoroughly updated Third Edition of this practical entertaining reference is a complete and clear guide to calculating drug dosages After reviewing basic math the book shows nurses how to interpret hundreds of sample drug orders and perform hundreds of complex dosage calculations Abundant illustrations and checklists help readers remember key points This edition includes NCLEX style questions throughout the text a new chapter on preventing medication errors and an expanded chapter applying dimensional analysis to practical dosage calculation problems The expanded Practice Makes Perfect section includes alternate format NCLEX style questions Readers can access up to the minute drug information at eDruginfo com *Medical Dosage Calculations For Dummies* Vanessa DePuente, Richard W. Snyder, Barry Schoenborn, 2026-01-06 An accurate and easy to read resource for students in medical dosage calculation classes Medical

Dosage Calculations For Dummies 2nd Edition is an accurate guide to dosage calculation that tracks to standard course curricula It s an easy to follow supplementary resource for students of nursing pharmacology paramedic programs and beyond walking you through ratio proportion formula and dimensional analyses for a wide variety of medication types You ll learn how medications are given to whom and how to chart accurately and clearly You ll also discover how to handle the processes and language of medical dosing as well as how to navigate the electronic medical records EMRs and electronic health records EHRs Inside Brush up on your math Understand the best practices in medical administration including needle insertion instructions Discover evidence based practice guidelines and methods Perfect for students currently taking a medical dosage calculations class Medical Dosage Calculations For Dummies is also a great resource for working professionals interested in brushing up on the fundamentals

Drug Therapy in Nursing Diane S.

Aschenbrenner,Samantha J. Venable,2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient s response to therapy This thoroughly updated Third Edition covers newly approved drugs has separate chapters on drugs affecting fungal and viral infections and includes more pathophysiology information FDA Black Box warnings have been added to the discussion of each prototype when applicable and safety alerts have been added to emphasize prevention of common medication errors A companion Website offers student and instructor ancillaries including NCLEX style questions pathophysiology animations medication administration videos and dosage calculation quizzes

Mosby's Drug Guide for Nurses ,1997

Nursing Calculations E-Book John D. Gatford,Nicole M. Phillips,2016-05-18 This internationally renowned guide to basic arithmetic for nursing students has been completely revised and updated for a new generation of readers Now entering its ninth edition Nursing Calculations comes with a quick reference card fits in the pocket to remind readers of essential formulae and AN ON LINE PROGRAM TO ALLOW FURTHER SELF TESTING VIA THE USE OF COMPUTERS AND MOBILE DEVICES Over 200 000 copies sold since publication Initial self testing chapter allows readers to identify and address areas of difficulty before moving onto practical examples Important Boxes highlight potential pitfalls for the reader Special section on paediatrics covers medication calculations relating to body weight and body surface area Contains glossary and useful abbreviations Brings together basic math skills and clinical examples to prepare readers for real life drug calculations Quick reference card fits in the pocket and remind readers of essential formulae Questions have been revised and updated when necessary to reflect current practice New material includes the use of medication charts in questions that involve medication labels Additional worked examples facilitate understanding of the 24 hour clock Contains a new revision chapter to help consolidate learning NOW COMES WITH AN ON LINE PROGRAM TO ALLOW FURTHER SELF TESTING VIA THE USE OF MOBILE DEVICES

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