

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

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

Example

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

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

LIQUID DOSAGE CALCULATION

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

Solve:

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

5 ml of erythropoietin will be administered

INJECTIBLE DOSAGE CALCULATION

Order: Administer 50mg of Benadryl every 6 hrs.
The available dose of Benadryl is 10mg/ml

Solve:

$$\frac{1 \text{ ml}}{10 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 5 \text{ ml}$$

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 kid 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 D5W 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 D5W in 10 hours (drip chamber)

Drop Factor 15 gtt/ml

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

EXAMPLES

Order: Administer 100 mg po of Benadryl. The nurse has 10mg/ml. How much dose she will administer?

$$\frac{1 \text{ ml}}{10 \text{ mg}} \times \frac{100 \text{ mg}}{1} = 10 \text{ ml}$$

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

Order: Administer 10 mg/kg for the client. 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
 qid = every 4 hrs
 qhs = every 8 hrs
 prn = as needed
 ac = before meals
 po = after meals
 qm = By Mouth
 pr = per rectum
 qd = per rectal
 tid = TID
 cap = Capsule
 sup = Suppository

Nursing Medication Calculation Formulas Cheat Sheet

Christina Roulston, Miriam Davies



Nursing Medication Calculation Formulas Cheat Sheet:

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 complex IV drip rates and pediatric dosing Real clinical scenarios that prepare you for actual nursing practice not just exams NCLEX style questions aligned with current testing standards to boost your exam readiness Common medication errors and how to avoid them ensuring patient safety in your future practice Quick reference charts for conversions abbreviations and formulas you ll use daily Unlike other overwhelming textbooks this guide addresses math anxiety head on with encouraging explanations and multiple approaches to solve each problem type Each chapter builds systematically on previous concepts ensuring you never feel lost or overwhelmed Perfect for Nursing students at all levels LPN ADN BSN MSN NCLEX RN and NCLEX PN exam preparation Practicing nurses seeking a comprehensive refresher Nursing educators looking for supplemental teaching resources Transform your calculation skills and walk into your exams with confidence Join thousands of nursing students who have conquered their math fears and mastered medication calculations using this proven approach **Dosage Calculations Made Incredibly Easy!** Springhouse, 2002 This entertaining guide is now more fun more up to date and even easier to use an indispensable resource for nurses who want to take the stress out of dosage calculations New to this edition are a chapter on dimensional analysis numerous lighthearted learning aids called Cheat Sheets and Practice Makes Perfect case study questions and answers that let nurses assess their progress Contents include math basics measurement systems drug orders and administration records calculating oral topical and rectal drug dosages calculating parenteral injections and I V infusions and calculating pediatric obstetric and critical care dosages **Manual of Nursing Procedures and Practice** Omayal Achi, 2020-04-01 Manual of Nursing Procedures and Practice will guide nurses in a variety of settings to provide expertise and efficient patient care It will also be an iconic resource in coaching and mentoring the novice and practicing nurses to build their competence and confidence Mosby's Canadian Nursing Drug Reference - E-Book Linda Skidmore-Roth, Faith Richardson, 2020-07-09 The first truly Canadian adaption of the first name in drug references Mosby s Canadian Nursing Drug Reference 1st Edition makes it easy for you to find the latest most vital dosing and administration information on more than 5 000 Health Canada approved drugs This portable full colour handbook emphasizes patient safety throughout with

special Warnings for potentially lethal reactions and Alerts for clinical situations requiring special attention Designed to help you develop clinical reasoning in practice and think critically in the classroom this unique nursing drug reference is perfect for use at home and on the job The companion website includes classroom friendly documents showing how to read drug references descriptions of drug family classifications therapeutic uses overarching cautions and more More than 5 000 Health Canada approved generic and trade name drugs are profiled covering almost every drug you will administer in practice or in clinicals Complete pharmacokinetic information includes the mechanism and absorption of the drug as well as its action duration and excretion Logical alphabetical organization by generic name provides quick and easy access to specific drugs and a full colour design highlights important information Nursing Process steps are used as the framework for organizing all nursing care information Logical organization of adverse effects organized by body system are identified as common or life threatening and show you signs to watch for during assessments Coverage of IV drug administration highlights dosage and IV administration instructions including safety considerations and Y site syringe and additive compatibilities Warning feature icon alerts you to important information Nurse Alert feature icon highlights the most critical interactions and side effects that you must be aware of during clinicals NEW The latest Health Canada approved drugs ensures students have access to the most up to date medications NEW Health Canada recommended vaccines and immune globulins appear throughout text for students to easily reference NEW SI units included throughout the text for easy reference NEW High Alert Canadian Medications threaded throughout the text NEW and UNIQUE Biohazard alerts included to keep you safe when administering medications NEW Canadian Controlled Substances threaded throughout the text NEW Seven all new comprehensive Canadian Appendices useful in practice and in nursing education NEW Fully revised and expanded Evolve site including a pedagogical oriented document of how to read and use a medication reference and the development of clinical reasoning in practice overviews of drug classifications case studies of patient nurse encounters demonstrating best practice and accompanying multiple choice review questions *Fundamentals of Nursing E-Book* Barbara L. Yoost, Lynne R. Crawford, 2021-12-07 NEW Clinical Judgment in Nursing chapter introduces the concept of clinical judgment and the six NCSBN Clinical Judgment Measurement Model Skills NEW Clinical judgment steps are integrated within the nursing process **Saunders Q&A Review for the NCLEX-RN® Examination - E-Book** Linda Anne Silvestri, 2014-10-01 With more than 6 000 unique test questions that you won't find in Saunders Comprehensive Review for the NCLEX RN Examination Saunders Q A Review for the NCLEX RN Examination 6th Edition provides the additional practice you need to prepare for and succeed on the NCLEX RN exam To enhance your review each question includes a test taking strategy rationales for correct and incorrect answers and page references to major nursing textbooks The Evolve companion website adds a pre test to help in identifying any areas of weakness and lets you answer questions in study or exam mode Written by the most trusted name in NCLEX exam review Linda Anne Silvestri this book organizes questions to

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managing conflict care prioritization patient safety and decision making More than 1 200 full color photos and drawings help you visualize concepts and procedures Nursing process format provides a consistent presentation that helps you apply the process while learning each skill NEW All new Clinical Judgment in Nursing Practice chapter incorporates concepts of the NCSBN clinical judgment model Updated evidence based literature is incorporated throughout the skills NEW End of chapter questions and end of unit unfolding case studies provide optimal preparation for the Next Generation NCLEX NGN **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 Nursing Skills Mr. Rohit Manglik,2024-01-16 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Medicines Management for Nursing Associates Christina Roulston,Miriam Davies,2024-02-08 The first medicines management textbook for trainee nursing associates Effectively managing and administering medicines is a core responsibility for all nursing associates This book covers everything a trainee nursing associate needs to master from understanding the fundamental legal and professional requirements to developing essential drug calculations skills This often overwhelming subject is broken down into manageable chunks with students taken step by step through the theory before practicing what they ve learnt with the help of insightful case studies and activities Key features Written specifically to address the unique experiences challenges and requirements of the nursing associate role and fully mapped to the NMC standards of proficiency 2018 Activities help trainees get to grips with the key skills and responsibilities of the role and allow them to practice calculations Wide ranging case studies cover all fields and a variety of clinical settings to show how this knowledge applies to practice ABOUT THE SERIES The Understanding Nursing Associate Practice series UNAP is a new collection of books uniquely designed to support trainee nursing associates throughout their training and into a professional career **Mosby's Dictionary of Medicine, Nursing & Health Professions - eBook** Mosby,2016-04-28 Make sense of the complex world of health care with Mosby s Dictionary of Medicine Nursing Health Professions 10th Edition This one stop reference includes detailed entries that help you communicate more effectively with colleagues in various disciplines With over 56 000 definitions 2 450 photographs and line drawings and supporting reference appendixes and atlases it is an indispensable reference for students and professionals alike Over 56 000 entries offer detailed definitions as well as the latest information on pathophysiology treatment and interventions and nursing care More than 2 450 color photographs and line drawings demonstrate and explain complex conditions and abstract concepts Strict common sense alphabetical organization makes it easy to find key terms and definitions Detailed appendixes provide you with useful

information on lab values symbols and abbreviations pharmacology infection control standards and more that can be used throughout your health career NEW Approximately 5 000 new and revised definitions reflect the latest developments in health care drugs and nursing terminology NEW Completely updated illustrations visually clarify key definitions to reflect current healthcare practice and equipment *You CAN Teach Advanced Med-Surg Nursing!* Mary Miller, Deborah Wirwicz, 2014-08-18 This is the first comprehensive resource for clinical medical surgical nursing instructors responsible for guiding students through their entire clinical rotation Filling a huge gap in resources for instructors required to teach the medical surgical nursing course it contains everything the new or adjunct instructor needs to teach expertly and confidently The guide features a week by week instructional plan for the clinical rotation and includes all materials necessary to effectively perform administrative leadership and supervision assess students knowledge and learning styles maximize the learning process simplify evaluation and help ensure a smooth transition to clinical practice The guide will serve as a welcome companion to both experienced and novice medical nursing instructors with its week by week instruction guide that encompasses organizational teaching templates teaching and learning resources and evaluation materials These include everything from the Adjunct Faculty Contract to the Course Syllabus to a Comprehensive Skills Checklist Key clinical instruction materials including PowerPoints and simulation scenarios are provided for each body system Additionally the book contains quizzes with answers discussion questions and interactive student activities and exercises Key Features Comprises the first complete resource for successfully guiding students through their clinical rotations from start to finish Helps to allay the fear factor for new and adjunct clinical nursing instructors Provides a week by week instructional guide that includes organizational teaching templates teaching and learning resources and evaluation aids Includes numerous forms and templates to facilitate administrative responsibilities student assessment and student evaluation Key clinical information is organized by body system and includes multiple interactive teaching tools *The Student Nurse Handbook E-Book* Bethann Siviter, 2013-03-19 This convenient Handbook will be invaluable when starting out on your pre registration nursing course Covering a broad range of topics from helping you to understand what tutors and mentors expect from you how to plan your work and coping with stress it will support you across all aspects of student life This book will help students to Write assignments Cope with stress Make the most of clinical placements Reflect on practice Understand nursing models theories and philosophies Understand medical terminology and nursing jargon Deal with legal and ethical issues *Mosby's Dictionary of Medicine, Nursing & Health Professions* Mosby, Inc, 2013-01-01 So much more than just a bestselling dictionary Mosby's Dictionary of Medicine Nursing Health Professions 9th Edition is a one stop reference to help you make sense of the complex world of health care It features over 56 000 authoritative definitions 45 appendixes a color atlas of the human body online resources and more than 2 450 full color illustrations nearly three times more than any other dictionary available making it an indispensable reference for students and professionals alike UNIQUE More than 2 450 color photographs and

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Care 2 Vol Set - E-Book Epub Gabrielle Koutoukidis, Kate Stainton, 2024-11-19 Must have resource for all future Enrolled Nurses Tabbner's Nursing Care is the main resource for Diploma of Nursing students and instructors This well established and highly respected book provides the knowledge and skills learners need to qualify as Enrolled Nurses Written by a highly qualified team of editors and contributors the book equips the learner to provide safe competent and person centred care It teaches and prepares learners to apply critical and reflective thinking to decision making use healthcare technology and work as part of a healthcare team in a variety of settings Complete with an accompanying workbook and a host of features to support and facilitate teaching and learning Tabbner's Nursing Care is the ideal contemporary evidenced based resource to develop competent and safe Enrolled Nurses of the future Reflects the current context and scope of practice for Enrolled Nurses Takes a person centred care approach and supports learners to become safe and competent Enrolled Nurses Builds clinical reasoning critical thinking and problem solving skills Full colour content to support teaching and learning Includes Nursing Care Plans Critical Thinking Exercises Case Studies Progress Notes Decision Making Framework Exercises Clinical Skills with rationales and Review Exercises New to this edition New skills covering Removal of a drain tube Urinary catheterisation male Focused pain assessment Care of the person after death Content covering health informatics and technology LGBTQIA representation and COVID 19 New chapter on readiness for practice Instructor resources on Evolve Answer guides for Case Studies Critical Thinking Exercises Decision Making Framework Exercises Review Questions Clinical Cases case studies Clinical Skills videos Image collection PowerPoint slides Test bank Weblinks Learner and instructor resources on Evolve Answer guides for Case Studies Critical Thinking Exercises Decision Making Framework Exercises Review Questions Clinical Cases case studies Clinical Skills videos Weblinks *Calculating Drug Dosages* Sandra Luz Martinez de Castillo, Maryanne Werner-McCullough, 2016-09-27 Master math concepts Ensure patient safety Conquer your fears and understand the most common math concepts used in nursing practice today Step by step guidance shows you how to accurately calculate drug dosages using all four methods Build your confidence with thousands of review questions in the text [Nursing Knowledge and Practice E-Book](#) Maggie Mallik, Carol Hall, David Howard, 2009-04-22 Nursing knowledge and practice is a comprehensive textbook which forms an ideal basis for foundation nursing students The core emphasis in the organisation and presentation of knowledge in this third edition remains focused on the in depth knowledge required by nurses to deliver care in the practice setting The chapter contents encompass knowledge that applies to all branches of nursing e g Communication Confusion Aggression and Rehabilitation Safety and Risk Infection Control Medicines etc The structure of all chapters is unique in integrating knowledge from subject areas often taught separately in the nursing curriculum This enables the foundation student to integrate this range of knowledge in making decisions about the delivery of nursing care to patients clients in all fields of nursing Exercises are included to encourage reflection on practice and develop critical thinking skills It also promotes the expansion of professional knowledge through the development of portfolio

evidence Building on the outstanding success of previous editions the authors have drawn extensively on current best evidence including research policy and substantial internet based resources reflecting UK and international perspectives Each chapter begins with an overview of the content and concludes with a summary to help evaluate learning Case studies reflect the diverse range of client needs and care settings of the four nursing branches and help relate theory to practice Reflective exercises and suggestions for portfolio evidence along with decision making activities promote reflection on personal experience and links to nursing practice using a problem based approach Current research is highlighted throughout demonstrating the evidence base for practice decisions Key web sites annotated further reading and references encourage readers to pursue contemporary evidence that underpins competency based practice Full colour throughout Content fully updated in line with developments in clinical practice teaching requirements and the evidence base Free electronic ancillaries on Evolve enhance the knowledge provided in each chapter with additional information exercises and resources An introductory chapter on Nursing Knowledge and Practice explores the role and context of nursing nationally and internationally providing foundation information on core knowledge areas common to all nursing curricula **Abrams' Clinical Drug Therapy** Geralyn Frandsen, Sandra Smith Pennington, 2013-01-24 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 The 10th edition has a new fresh design and approach with an added focus on patient safety integrated into the text

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