

DOSAGE CALCULATION

Conversions:

- 1 kg = 2.2 lbs
- 1 mg = 1,000 mcg
- 1 g = 1,000 mg
- 1 oz = 30 mL
- 1 L = 1,000 mL
- 1 tsp = 5 mL
- 1 tbsp = 15 mL
- 1 tbsp = 3 tsp

Rounding:

- Less than .5 = round to nearest whole.
- Greater than .5 = round to nearest tenth.

Dimensional Analysis:

- **Given:** 60mg acetaminophen q 6 hrs PRN
- **Available:** 300mg tablets

1. Determine the unit that you are calculating.
• Tablets
2. Determine the quantity available.
• 300 mg
3. Determine the dose available.
• 300 mg
4. Determine the desired dose.
• 600 mg
5. Do you need to convert units?
• No
6. Set up the problem and solve.

$$\frac{\text{Quantity}}{\text{Available dose}} \times \frac{\text{Desired dose}}{1} = \frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ tablets}$$

Solid Dosages:

- **Given:** Penicillin 600mg PO 3 times a day
- **Available:** 300mg tablets
- **Question:** how many tablets per dose?

$$\frac{1 \text{ Tablet}}{300 \text{ mg}} \times \frac{600 \text{ mg}}{1} = 2 \text{ Tablets}$$

Liquid Dosages:

- **Given:** 60mg Penicillin PO daily
- **Available:** Penicillin 300mg per 5mL
- **Question:** how many mL should be administered?

$$\frac{3 \text{ mL}}{300 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 0.6 \text{ mL}$$



Injectable Dosages:

- **Given:** Benzathine 60mg IM Four times day
- **Available:** Benzathine 60mg per mL
- **Question:** how many mL will be administered?

$$\frac{1 \text{ mL}}{60 \text{ mg}} \times \frac{60 \text{ mg}}{1} = 1 \text{ mL}$$



Weight-Based Dosages:

- **Given:** Amoxicillin 40mg/kg body weight once a day
- **Available:** Amoxicillin suspension 400mg/5mL
- **Question:** how many mL given per dose for a 22lb child?

1. Convert lb to kg: $22 \text{ lb} \div 2.2 = 10 \text{ kg}$
2. Calculate dose in mg: $40 \frac{\text{mg}}{\text{kg}} \times 10 \text{ kg} = 400 \text{ mg}$
3. Divide dose by frequency: $400 \text{ mg} \div 1 = 400 \text{ mg per dose}$
4. Convert mg to mL:

$$\frac{5 \text{ mL}}{400 \text{ mg}} \times \frac{400 \text{ mg}}{1} = 5 \text{ mL per dose}$$

IV Flow Rate with Electronic Pump:

- **Given:** 600 mL of D5W in 8 hours

$$\frac{\text{Volume}}{\text{Time}} = \frac{600 \text{ mL}}{8 \text{ hours}} = 75 \text{ mL/hr}$$

Manual IV Infusions:

- **Given:** 1000mL to be infused over 6 hours
- **Question:** how many grams of the drug Factor is 15 g/mL?

$$\frac{\text{Volume}}{\text{Time (hr)}} \times \frac{\text{Drug}}{\text{Factor}} = \frac{1000 \text{ mL}}{6 \text{ hr}} \times \frac{15 \text{ g}}{100 \text{ mg}} = 25 \text{ grams}$$

Nursing Calculations

**Susan Sienkiewicz, Sandra
Megerdichian**



Nursing Calculations:

Clinical Nursing Calculations Susan Sienkiewicz, Sandra Megerdichian, 2019-09-27 *Clinical Nursing Calculations* is an essential text for teaching dosage calculation to undergraduate nursing students **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 **Clinical Nursing Calculations with Navigate Advantage Access** Susan Sienkiewicz, Sandra Megerdichian, 2024-02-13 Accurate dosage calculation is essential for all nurses to master It is crucial to equip students with the right tools to build a strong foundation and establish lifelong confidence in calculation and maintaining patient safety The updated *Clinical Nursing Calculations* Third Edition empowers students with the confidence and skills to safely calculate the right medication dosage to their patients Drawing from their extensive experience across the continuum of care the authors employ the CASE approach Convert Approximate Solve Evaluate for performing dosage calculations while presenting side by side comparisons of all three methods of calculation This systematic step by step approach accounts for students different learning styles whether they prefer to utilize the Ratio Proportion Formula Method or Dimensional Analysis method of calculation

Nursing Calculations and IV Therapy For Dummies - UK Claire Boyd, 2016-03-21 The fast and easy way to pass the *Nursing Calculations* test Is the maths behind the medicine making you maudlin over taking your *Nursing Calculations* test You ve come to the right place Written by a nurse with countless hours of experience and who trains other nurses every day this plain English no nonsense guide to nursing calculations and IV therapy makes it easier to come to grips with the numbers and formulas you ll encounter on the day of the exam and in the field Many students and practising nurses struggle with mathematics Luckily this friendly guide is here to take the intimidation out of the subject arming you with the knowledge and know how you need to take the exam with confidence and to achieve the best score possible From fractions

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How to Master Nursing Calculations Chris John Tyreman,2010-09-03 To promote safe practice nursing schools test for basic arithmetic both at interview stage and during the 3 years of nurse

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Drug Calculations for Nurses: A Step-by-Step Approach 3rd Edition Robert Lapham,Heather Agar,2009-07-31 This best selling pocket sized book helps you perform drug calculations with confidence and competence The completely updated third edition includes community practice and primary

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