

## 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".

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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**)

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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**)?

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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

**D Sientop**



## **1dosage Calculations Practice Problems:**

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*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      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      **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

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