

Critical Care Calculation Study Guide

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Critical Care Calculations Study Guide Copyright AMN Healthcare, 2012 8. Your esmolol drip is running at 15 mL/hour. Your patient weighs 65 kg. The IV contains 2500 mg esmolol in 250 mL fluid. Your IV is running at how many mcg/kg/min? Ordered amount of drug = X Dose/mL (Drug concentration) = 2500/250 = 10 mg/mL Convert 10 x 1000 = 10,000

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Critical Care Calculations Study Guide 1. Your patient has dobutamine ordered at 15 mcg/kg/min. the patient weighs 75 kg. The 250 mL IV bag has 500 mg of dobutamine in it. You will run this at what rate? Ordered amount of drug = 15 mcg/kg/min Dose/mL (Drug concentration) = 500/250 = 2mg/mL Convert to mcg = 2000 mcg/mL Patient weight 75 kg

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Critical Care Calculations Study Guide Work out the answers in the 10 sample questions below. The answers and formulas are on the following page. We encourage you to practice ALL the equations so that you are capable of correctly calculating IV medications seen in the ICU setting. Practice Questions 1.

Critical Care Calculation Study Guide
Critical Care Calculations Study Guide Example Your 65 kg patient has dopamine ordered at 6 The IV has 400 mg of dopamine in 250 mL. What IV rate is correct? 1. Always determine the dose of medication per mL (Drug Concentration) 400 mg dopamine 1.6 mg fluid 250 mL fluid 2.

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Critical Care Calculations Study Guide Copyright AMN Healthcare, 2012 Example #1 Your 65 kg patient has dopamine ordered at 6 mcg/kg/min. The IV has 400 mg of dopamine in 250 mL. What IV rate is correct? 1. Always determine the dose of medication per mL (Drug Concentration) 400 mg dopamine = 1.6 mg dopamine/mL fluid 250 mL fluid 2.

Critical Care Calculations Study Guide - Critical Care ...
Because of the potency of the medications and their tendency to induce changes in blood pressure and heart rate, accurate calculation of dosages is essential. Medications in the critical care area can be ordered by milliliters per hour (mL/hr), drops per minute (gtt/min) (using a microdrop set), micrograms per kilogram per minute (mcg/kg/min), or milligrams per hour (mg/hr).

Critical Care Calculations / Basicmedical Key
Critical Care Knowledge Assessment Examination: Study Guide Page 2 of 4 Copyright AMN Healthcare Version 7 o To calculate drip rate for mcg/kg/min: o Infusion rate (mL/hr) = dose (mcg) x weight (kg) x 60 (min) Concentration in mg/mL x 1000 o Example: A patient who weighs 80 kg has an order for dopamine (Intropin®) 5 mcg/kg/min. You

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o Critical care calculations (using an infusion pump or infusion device) including calculating the mL/hour rate, the dose per minute or per hour, and the dose based on infusion rate. • The dosage calculation competency test is given as a proctored assessment in the college's Testing

Study Guide with Sample Questions Dosage Calculation ...
To calculate the hourly rate (mL/hr), you may utilize the following formulas: Dose (in mcg/kg/min) x wt (in kg) x drug volume in mL x 60 (min/hr) = mL/hr . drug concentration in mcg. Or. Dose (in mcg/min) x drug volume in mL x 60 (min/hr) = mL/hr. drug concentration in mcg. Or. Dose (in mg/kg/hr) x wt (in kg) x drug volume in mL = mL/hr. drug concentration in mg

Dosage Calculation in Critical Care Settings
Critical Care Calculations Study Guide Ordered amount of drug x pt's weight x 60 (minutes/hr) Drug concentration Example #3 Lidocaine is ordered a 1 mg/min. Your IV has 2 grams of Lidocaine in 500 mL.
Critical Care Calculations Study Guide [d4pg1wpr6np]
Critical Care Calculations Study Guide Work out the answers in the 10 sample questions below. The answers and formulas are on the following page.

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Study notes CRITICAL CARE CALCULATIONS at Chamberlain ...
This activity is intermediate in nature. It provides critical knowledge and application of terminology and intravenous drug calculations used in the critical care setting. This activity is appropriate for all nursing students studying intravenous critical care medication concepts.

Critical Care Intravenous Drug Calculation: Drill and Practice
Critical Care, nursing school, nurse, hospital, home health, RN, LVN, LPN, nursing student, registered nurse, licensed vocational nurse, licensed practical nurse, bedside
Critical Care Dosage Calculations - Nurse Nacole
CRITICAL CARE CALCULATIONS #1 The order reads to give 3 mcg/kg/min of Dopamine. The patient weights 100 kg. In order to give the Dopamine you first need to know how it is supplied by pharmacy. In this situation you will have 400mg Dopamine in 250 mL D5W.

Critical Care Calculations - CRITICAL CARE CALCULATIONS#1 ...
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Study Guide - RN Continuing Education
This is your study guide to help you refresh or review what you know about drug dosage calculations including tips on how to answer them. NCLEX Tips for Dosage Calculation Questions The fill-in-the-blank question format is usually used for medication calculation, IV flow rate calculation, or determining the intake-output of a client.

Drug Calculations Practice NCLEX Questions (100+ Items) ...
Critical Care Calculations Study Guide - rn Summary : This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are