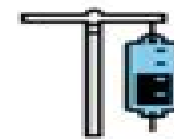


Critical Care Calculations Study Guide



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)

$$\frac{400 \text{ mg dopamine}}{250 \text{ mL fluid}} = 1.6 \text{ mg dopamine/mL fluid}$$

2. Do you need to convert your dose from mg to mcg? mcg to mg? grams to mcg?

$$1.6 \text{ mg} = 1600 \text{ mcg dopamine/mL fluid}$$

3. Use a streamlined equation where you only need 4 items:

- A. Ordered amount of drug
- B. Pt. weight (most of the time)
- C. Number of minutes in an hour (always the same!)
- D. Dose/mL (calculated in #1)

$$\frac{\text{Ordered amount of drug} \times \text{pt's weight} \times 60 \text{ (minutes/hr)}}{\text{Drug concentration}}$$

$$\frac{6 \text{ (rate)} \times 65 \text{ (pt weight)} \times 60 \text{ (minutes/hr)}}{1600 \text{ (mcg dopamine/mL)}} = \frac{23400}{1600} = 14.6; \text{ round to 15; set rate at 15 mL/hour}$$

4. If the drug is not weight based, simply exclude the weight from the equation

Example #2

Your patient has a nitroprusside drip at 0.4 mcg/kg/min. The concentration is 50 mg nitroprusside in 250 mL fluid. The patient weighs 80 kg. What rate will you set the IV at?

Remember the equation

$$\frac{\text{Ordered amount of drug} \times \text{pt's weight} \times 60 \text{ (minutes/hr)}}{\text{Drug concentration}}$$

1. What is the dose/mL? (Drug Concentration) 50 mg/250 mL = 0.2 mg/mL
2. Do you need to convert from mg to mcg? YES! 0.2 x 1000 = 200 mcg/mL
3. Input information into the equation:

$$\frac{0.4 \text{ (ordered amt of drug)} \times 80 \text{ (pt weight)} \times 60 \text{ (min/hr)}}{200 \text{ mcg/mL (dose)}} = 9.6 \text{ mL/hour; round to 10 mL/hour}$$

Critical Care Calculations Study Guide

Rachel S Tattersall



Critical Care Calculations Study Guide:

Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1. description of the procedural tasks commonly performed for the critically ill patient; 2. explanation of the most common pathophysiologic states encountered; and 3. description of specific disease entities with details of their differential diagnosis, diagnostic strategy, and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader.

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