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)

400 mg dopamine = 1.6 mg dopamine/mL fluid 250 mL fluid

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

1.6 mg = 1600 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).
 - Ordered amount of drug x pt's weight x 60 (minutes/hr)
 Drug concentration

6 (rate) x 65 (pt weight) x 60 (minutes/hr) = 23400 = 14.6; round to 15; set rate at 15 mL/hour 1600 (mcg dopamine/mL) 1600

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

Ordered amount of drug x pt's weight x 60 (minutes/hr) Drug concentration

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

0.4 (ordered amt of drug) x 80 (pt weight) x 60 (min/hr) = 9.6 mL/hour; round to 10 mL/hour 200 mcg/mL (dose)

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Critical Care Study Guide Gerard J. Criner, Rodger E. Barnette, Gilbert E. 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diverse education in order to und stand the pathogenesis and optimum care of a variety of critical illnesses we have substitially revised the prior topics in the frst edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical care in the ICU neurosurgical emergencies acute co nary syndromes cardiac arrhythmias role of whole body rehabilitation in the ICU ethical conduct of human research in the ICU and nursing care of the ICU patient Study Guide 2025-2026 Pinnacle Test Prep, 2025-03-05 CCRN Study Guide 2025 2026 Your Ultimate Resource for Critical Care Nursing Certification Success Master the CCRN exam with confidence even with the most challenging critical care concepts Are you a critical care nurse preparing for the CCRN certification Looking for a comprehensive study resource that 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