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Paramedic dosage calculations practice pdf online test answers key





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Drug Calculation Test Question Preview

The drug Captopril, used to treat hypertension, is prescribed at 25mg/kg/day. If Rodrick was prescribed this medication and he weighs 74kg, what is the total amount of Captopril he needs for a period of 12 days in mg/kg?

-	22,200	
В	4,054	
C	1,850	
D	300	
		Next Question

Volume (mL to be given): X Total Amount of Drug: 25mg Total Volume: 5mL Desired Dose: 15mg X (mL to be given) = (Total Volume x Desired Dose) / Total Amount of Drug Fill in known information to equation: X (mL to be given) = 75mL / 25 (mg cancels out) X (mL to be given) = 3mL Your patient in cardiac arrest requires 300mg of Amiodarone per 2010 ACLS guidelines. Macro drips sets produce larger drops, requiring 10-15 drips/mL (depending on the manufacturer). There are two ways to calculate a Lidocaine drip rate: 1. If you are using a 60-drop/mL drip sets, what should your flow rate be (gittrin)? There are two ways to calculate a Lidocaine drip rate: 1. If you are using a 60-drop/mL = 120 kg = 70 kg = 120 kg = 70 kg = 120 kg = 70 kg = 120 kg = 0 kg = 70 kg = 120 kg = 0 kg = 70 kg = 120 kg = 0 kg = 70 kg = 120 kg = 0 kg = 70 kg = 120 kg = 135 kg mathematic sets and the dist of the set of the se

You need to convert their weight to kilograms so you can administer Succinylcholine at 2mg/kg. In order for the math to work properly, you need to ensure that the concentration of Dopamine you are using a 60-drop/mL drip set. Administer 300mg/hour Labetalol (concentration of 2.5g/500mL) using a 60-drop/mL drip set. Administer 20mcg/kg/minute Dopamine (concentration because a medication drip usually requires small amounts of medication to be administered over time. Volume (mL to be given): X Concentration: 450mg / 3mL = 150mg/mL Desired Dose: 15mg X (mL to be given) = 2mL Medication administration: Drip Sets IV Drip Functions: Maintenance Drip: A maintenance drip allows you to maintain the therapeutic levels of a drug after giving a bolus medication. If you need to mix your own IV bag with Dopamine, it is important to achieve this concentration as well. 150 - 15 = 135kg You have a 40lb pediatric patient. Administer 940mL/hour using a 15-drop/mL drip set. You need to administer 40mcg/min of Nitroglycerin. You have 2000mg of Lidocaine in 500mL of Normal Saline and are using a 60-dropmL drip set. 20 - 2 = 18kg Converting Kilograms to Pounds. For example, a dose of 2mg/min would require approximately 23 gtt/minute. There is a very simple way to solve this so don't make this too complicated! Let's look at Lidocaine 2%. Desired Dose: 10mcg/kg/minute Drip Set: 60-drop/mL Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration: 400mg/250mL (1600mcg/mL) Calculated drip rate: 40 X (calculated drip rate) = (1000mcg/minute X 60-drop/mL) / 1600mcg/mL X = 60000 (mcg & mL cancel out) / 1600 X = 60000 / 1600 = 37.5 gtt/minute Calculating a Dopamine Drip... Using the Dopamine Clock. Administer 1g/hour Cefazolin sodium (concentration of 1000mg/500mL) using a 60-drop/mL drip set. How many mL will you need to draw up? Fluid Administration (answer in gtt/minute) Administration (answer in gtt/minu to be mixed with): 1000mL Desired dose: 4mg/mL X: amount of Lidocaine to be injected (mg) (4mg/1mL) = (X/Total Volume) Fill in known information to equation and cross multiply. IV Drips (answer in gtt/minute) Administer 70mcg/mL drip set. 60gtt/mL) Drug Concentration: amount of drug in vial/bag (ex. Then solve for X: 4mg / 1mL = X / 1000mL X = 4 x 1000 (mL cancels out) X = 4000mg You should inject 4000mg of Lidocaine into the 1000mL bag of Normal Saline to achieve the desired concentration of 4mg/mL. Amiodarone given for stable ventricular tachycardia with pulses. Ok, lets do it. Total Volume (mL to be given): 10000mL Drip Set: 15-drop/mL Total Time: 8 hours X = (Total Volume x Drip Set) / Total Time: 8 hours X = (Total Volume x Drip Set) minutes X = 150000 drops / 480 minutes = 312.5 gtt/minute Dopamine is administered as a drip because it is a very potent drug that is only given to extremely sick patients. Administer 5mcg/minute of Epinephrine (concentration of 4mcg/mL) using a 60-drop/mL drip set. Dopamine = 1600mcg/mL Your medical kit only has a 250mL bag of Normal Saline in it. Administer 1.2mg/minute Lidocaine (concentration of 4mg/mL) using a 60-drop/mL drip set. When the pressure is on, you will need a fast and easy-to-remember way to do your conversions. Medication Concentrations & Bolus Doses The Paramedic's bread and butter Glossary of Terms While most of these terms are selfexplanatory, let's define them so there is no confusion. Administer 5mg/minute Lidocaine (concentration 1mg/10mL). You can find this number on the medication box or vial. Administer 17mL/hour using a 60-drop/mL drip set. You have a 200lb patient. Your patient weighs 75 kg. Calculating a Lidocaine Drip... Using the Drip Rate Formula Your cardiac arrest patient has experienced return of spontaneous circulation. Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. Lidocaine Clock (answer in gtt/minute – draw line on clock) Administer 7.5mcg/kg/minute Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. Lidocaine Clock (answer in gtt/minute – draw line on clock) Administer 7.5mcg/kg/minute Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. Lidocaine Clock (answer in gtt/minute – draw line on clock) Administer 7.5mcg/kg/minute Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. Lidocaine Clock (answer in gtt/minute – draw line on clock) Administer 7.5mcg/kg/minute Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. 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Lidocaine Clock (answer in gtt/minute – draw line on clock) Administer 7.5mcg/kg/minute Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. Lidocaine Clock (answer in gtt/minute – draw line on clock) administer 7.5mcg/kg/minute Dopamine gtt/minute - draw line on clock) Administer 10mg/minute Lidocaine (concentration of 4mg/mL) using a 60-drop/mL drip set. You have 400mg of Dopamine in 250mL of Normal Saline and are using a 60-drop/mL drip set. The Amiodarone is supplied in a pre-filled syringe that contains 450mg in 3mL. Desired Dose: 2mcg/minute Drip Set: 60-drop/mL Drug Concentration: 1mg/250mL = 4mcg/mL) / 4mcg/mL X = 120 (mcg & mL cancel out) / 4 X = 120 / 4 = 30 gtt/minute Let's calculate the drip rates for some fluid administration... You have been ordered to administer 1000mL/hour using a 10-drop/mL drip set. Milligrams to Grams (move the decimal 3 points to the left) 740mg = .740g 2mg = .002g 100mg = .1g Grams to Kilograms (move the decimal 3 points to the left) 4000g = 4kg 750g = .75kg 93500g = 93.5kg Micrograms to Milligrams (move the decimal 3 points to the left) 4000g = 4kg 750g = .75kg 93500g = 93.5kg Micrograms to Milligrams (move the decimal 3 points to the left) 4000g = 4kg 750g = .75kg 93500g = 93.5kg Micrograms to Milligrams (move the decimal 3 points to the left) 4000g = .25mg 500mcg = .25mg 500mc drop/mL drip set. As you are well aware by now, this is done for any medication that has weight-based dosing. Protocol indicates you should start a Lidocaine bags should come in this concentration. Choosing a Drip Set: macro drip sets (10-15 gtt/mL) are generally used for fluid administration because they allow for quick administration of large amounts of volume. You need to convert their weight to kilograms so you can administer a Lidocaine bolus at 1.5mg/kg Cut the patient's weight in half... 300lb / 2 = 150 Take 10% of that number and subtract it from itself... 150 / 10 = 15. What should your flow rate be (gtt/min)? Take 10% of that number and subtract it from itself... 20 / 10 = 2. Administer 4.5mg/minute Lidocaine (concentration of 4mg/mL) using a 60-drop/mL drip set. A nitroglycerin drip is started at 10mcg, which means that 1/40 of a sublingual dose is given over 1 minute! By administering Nitroglycerin via drip, you can titrate the drug to relief of pain and reduce the negative effects it has on blood pressure. Some IV drugs come in premixed IV bags (Lidocaine, Dopamine) while others require premixing prior to administration (Amiodarone, Epinephrine). The sublingual dose is .4mg (400mcg) and is administration (Amiodarone, Epinephrine). is supplied in a vial that contains 25mg in 5mL. Med Math 101: Practice Problems Below are a series of practice problems meant to increase your proficiency and test your understanding of what you have just learned. Administer 24mg of Etomidate (concentration of 20mg/10mL). For example, Nitroglycerin works to relieve chest pain but can cause a patient's blood pressure to drop dangerously low. Here is what we know: Desired Dose: 10mcg/kg/minute Patient Weight (in Kg): 100 kg The Dopamine Clock is dosed as mcg/min so we need to get our math to show mcg/min. Your patient weighs 80 kg. When calculating Dopamine drip rates, your calculations should be based on a concentration of 1600mcg/mL. 400mg/250mL) Fluid administration formula: administration of a specified volume of solution given over time X = (Total Volume: total amount of volume needing to be administered (ex. 120 + 12 = 132lb. Here is a quick and easy way to do so: Multiple the patient's weight in kilograms by 2... 60kg x 2 = 120 Take 10% of that new number and add it to itself... 120/10 = 12. So let's put this all together... Let's set up this calculation for the most typical concentration we see in the field: mg/ml. The effects of Dopamine on the body are dependent on the dose given. Administer 500mL/hour using a 10-drop/mL drip set. If you need to mix your own IV bag with Lidocaine, it is important to achieve this concentration as well. By mixing it in a 100mL IV bag of normal saline and starting an IV drip! Drip to Decrease Potency Effects: Some of the drugs we give are very potent and can cause adverse reactions and side effects that need to be avoided in certain circumstances. 15gtt/mL) Total Time: total amount of time that fluid needs to be administered over (ex. General formula: a certain amount of drug (with a specified concentration) to be given at a desired dose X = (Desired Dose x Drip Set) / Drug Concentration X: calculated drip rate, expressed in drips/minute (gtt/min) Desired Dose: total amount of drug needing to be administered, usually defined as a rate (ex. The bag can be regular fluid (normal saline) or it can have a drug mixed in with it. Drip Set: an IV drip set connects the IV bag to the actual IV catheter, allowing the solution to be administered to the patient. Is this drip rate possible to achieve? IV Drip Formulas There are two formulas that can be used when calculating drip rates. Administer 1.75mg/minute Lidocaine drip rates, your calculations should be based on a concentration of 4mg/mL) using a 60-drop/mL drip set. An IV drip of Dopamine allows you to control the actions of the drug in the body as needed. 4mg/mL. 4.5mg/minute (just a little more than one whole time around the clock) Your patient weighs 125 kg. According to current ACLS guidelines, 150mg of Amiodarone should be given over 10 minutes. Take the percentage number (50%) and make it grams... 50% = 50 grams Take the number of grams and place it over 100mL: 50g / 100mL = 50000mg / 100mL = 50000mg / 100mL = 50000mg / 100mL = 500mg / 1mL = 0.5g/mL (This is the concentration seen on a D50% box) Bolus Medications When you administer a bolus of a medication, you are giving a specific amount all at once. Administer 80mL/hour using a 60-drop/mL drip set. Your patient weighs 100kg. 10 Liters of NS) Drip Set: number of drips required to produce one mL of solution (ex. Lidocaine Drips (answer in gtt/minute) Administer 3.5mg/minute Lidocaine (concentration of 50g/500mL). Take the percentage number (2%) and make it grams... 2% = 2 grams Take the number of grams and place it over 100mL: 2g / 100mL = 2000mg / 100mL = 2000mg / 100mL = 2000mg / 100mL = 20mg/mL (This is the concentration seen on a prehospital Lidocaine vial) Feel like trying Dextrose 50%? Here is what we know: Desired Dose: 1.5 mg/minute Now locate on the clock approximately where 1.5 mg/minute would be. This is different from a drip, where a certain amount of drug is administered slowly over a period of time. Administer 0.5mg/minute Diazepam (concentration of 30mg/L) using a 10-drop/mL drip set. Use the Dopamine clock to quickly obtain a relatively accurate drip rate. 1) Grams to Grams (move the decimal 3 points to the right) 50g = 50000mg 7500 = 7500000mg 3g = 3000mg 2) Kilograms to Grams (move much Dopamine do you need to inject into the bag to achieve the desired concentration of 1600mcg/mL? EMTprep Staff Updated Oct 24, 2015 Med Math 101: The Basics Everyone Should Know Trust us, you need to know this stuff... The Units of Measurement In the EMS setting, we worry about three metric units of measurement... Grams (g) weight Meters (m) - distance Liters (L or l) - volume Attached to these units of measurement will be one of the following... Kilo - one thousandth (.001) Micro - one millionth (.000001) Now let's combine the two... Kilogram (mg) Microgram (mg) Centimeter (cm) Liter (L) Milliliter (ml) Metric System Practice Problems Tip: If you're going from a smaller unit to a larger unit, move the decimal point to the left. Then approximate how many drops/minute are required to achieve this dose. Total Volume (mL of solution to be mixed with): 250mL Desired dose: 1600mcg/mL X: amount of Dopamine to be injected (mg) (1600mcg/1mL) = (X/Total volume) Fill in known information to equation and cross multiply. Bolus Over Time: Some treatments must be administered over a certain length of time. Administered over a certain length of time. Administered over a certain length of time. desired concentration of 4mg/mL? Administer 25mg/hour Versed (concentration of 500mcg/mL) using a 60-drop/mL drip set. Your patient weighs 150 kg. Administer 50mL/hour using a 60-drop/mL drip set. Your patient weighs 150 kg. Administer 50mL/hour using a 60-drop/mL drip set. = 4mg/ml Sometimes concentrations are expressed as a percentage (Dextrose 50%, Lidocaine 2%). For example, a dose of 1000mcg/minute x 100kg = 1000mcg/minute (kg cancels out) Now, locate on the clock approximately where 1000mcg/min would be. Lidocaine: Lidocain required to produce one mL of solution (ex. Administer 12.5mg Promethazine (concentration of 25mg/mL) using a 60-drop/mL drip set. 2. Dopamine Drips (answer in gtt/minute) Administer 5mcg/kg/minute Dopamine (concentration of 400mg/250mL) using a 60-drop/mL drip set. Use the Lidocaine clock to quickly obtain a relatively accurate drip rate. It is up to you as a paramedic to determine how much you need to administer to deliver the correct amount of medication has a solute and a solution, leading to a concentration. Then solve for X: 1600mcg / 1mL = X / 250 mL X = 1600 x 250 (mL cancels out) X = 400000mcg = 400mg You should inject 400mg of Dopamine into the 250mL bag of Normal Saline to achieve the desired concentration of 50mg/2mL). Administer 18mg of Morphine sulfate (concentration of 50mg/2mL). Administer 4g of Magnesium Sulfate over 5 minutes (concentration of 400mg/mL) using a 60-drop/mL drip set. 3. Usually, you will see this expressed on a medication as either g/ml, mg/ml or mcg/ml. Administer 0.4mg of Nitroglycerin (concentration of 400mcg/tab). Cut the patient's weight in half... 40lb / 2 = 20. Desired Dose: the dose we want to administer to the patient Total Drug Amount the total amount of a drug within its container Total Drug Volume: the amount of fluid (mL) we will administered Volume: the amount of fluid (mL) we will administer to a patient Medication Concentrations Fortunately for EMS professionals, most of our medication concentrations are expressed as a unit of weight per volume. Total Volume (mL to be given): 1000mL Drip Set: 15-drop/mL Total Time: 60 minutes Calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculated drip rate: X X = (Total Volume x Drip Set) / Total Time Fill in known information to equation: X (calculat Parkland formula, you have calculated that you need to give 10L of Normal Saline to your patient over 8 hours. Administer 350mL/hour using a 15-drop/mL drip set. In order for the math to account for a different concentration) and you need to be using a 60-drop/mL drip set. A drip set is categorized by how many drips it takes to administer 1.875L/hour using a 10-drop/mL drip set. Administer 1.875L/hour using a 60-drop/mL drip set. Administer 1.875L/hour using a 60-drop/mL drip set. Set: 60-drop/mL Drug Concentration: 2000mg/500mL (4mg/mL) Calculated drip rate: X X = (Desired Dose x Drip Set) / Drug Concentration Fill in known information to equation: X (calculated drip rate: X X = (Desired Dose x Drip... Using the Lidocaine Clock Using the same problem and the same numbers, let's calculate this Lidocaine drip using the Lidocaine Clock. Calculate a drip rate using all of that information... You are preparing to administer a nitroglycerin drip for your patient. Administer 10mcg/kg/minute Dopamine (concentration of 0.8g/500mL) using a 60-drop/mL drip set. Use the drip rate formula and performing the mathematical operations to find the exact drip rate. Desired Dose: 40mcg/minute Drip Set: 60-drop/mL Drug Concentration: 200 mcg/mL Calculated drip rate: X = (Desired Dose x Drip Set) / Drug Concentration Fill in known information to equation: X (calculated drip rate) = (40 mcg/mL X = 2400 (mcg & mL cancel out) / 200 X = 2400 / 200 = 12 gtt/minute You are preparing to administer an Epinephrine drip for your patient. You need to administer 2mcg/kg/minute Dopamine (concentration of 1600mcg/mL) using a 60-drop/mL drip set.

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