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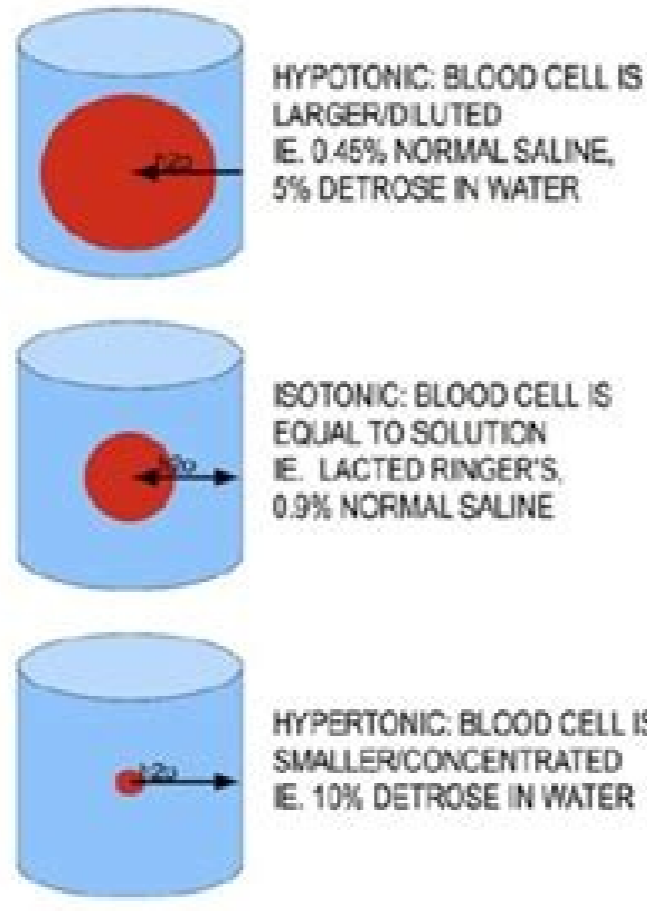
Why give hypotonic iv solution

Understanding IV Fluids

I cannot describe to you how pictures make things click, but they do! When my friend drew a pic to describe osmosis, a major light bulb went off and this concept remained stuck in my head and truly helped me with IV fluids. For instance, if your patient is dehydrated what will be the "ideal" IV fluid replacement? the answer is **hypotonic** because you need to bring water or hydration back into the cells:

Seeing the IV Fluids

This is a more presentable graphic than what my friend made in my notebook ...nonetheless what was microscopic to understand was suddenly clear! and my little advice is if you're confused about IV rehydration and how they relate to the body, please keep this picture in your head, thanks ☺



Type of Fluid	Definition	More Examples
Hypotonic (big blood cell)	* lower tonicity or solute concentration * fluids shift from the intravascular space to both the intracellular and interstitial spaces	* 0.33% sodium chloride * 0.2% sodium chloride * 2.5% dextrose in water
Isotonic (normal blood cell)	* concentration of dissolved particles is similar to that of plasma * infused solutions remain in the extracellular space and increase intravascular volume	Lactated Ringer's solution
Hypertonic (small blood cell)	* higher tonicity or solute concentration * water is drawn out of the intracellular space, increasing extracellular fluid volume	* 3% sodium chloride * 5% sodium chloride * 5% dextrose and 0.45% sodium chloride * 5% dextrose and 0.9% sodium chloride * D5LR * D70W

IV Fluid Therapy

Guideline for the total amount of fluid to be replaced in some and severe dehydration

	Usual Fluid Deficit(ml/Kg)	Deficit Fluid Replaced(ml/kg)	Maintenance fluid required in 8 hrs(ml/kg)	Total amount of fluid for correction of dehydration to be given in 8 hours
Some Dehydration	70-100ml	50	50	100
Severe Dehydration (>100<200)	120-180ml	100	50	150

Common IV solutions and names

	Isotonic	Hypotonic	Hypertonic
Dextrose in water	5% dextrose in water <i>also called:</i> D5W		10% dextrose in water <i>also called:</i> D10W
Saline	0.9% sodium chloride <i>also called:</i> 0.9% NaCl 0.9% NS (normal saline)	0.45% sodium chloride <i>also called:</i> 0.45% NaCl 0.45% NS (half normal saline) 0.33% sodium chloride <i>also called:</i> 0.33% NaCl 0.33% NS (one third normal saline)	3%-5% sodium chloride <i>also called:</i> 3%-5% NaCl 3%-5% NS
Dextrose in saline	5% dextrose in 0.225% sodium chloride <i>also called:</i> D5 one-quarter normal saline D5 0.225% NaCl D5 0.225% NS		5% dextrose in 0.9% sodium chloride <i>also called:</i> D5 normal saline D5 0.9% NaCl D5 0.9% NS 5% dextrose in 0.45% sodium chloride <i>also called:</i> D5 one half normal saline D5 0.45% NaCl D5 0.45% NS
Electrolyte solutions	Lactated Ringer's <i>also called:</i> LR		5% dextrose in lactated Ringer's <i>also called:</i> D5LR

IV Solutions

Isotonic	Hypotonic	Hypertonic
Isotonic fluid stays inside the bloodstream or intravascular compartment.	A hypotonic fluid will shift and flow into a more concentrated solution. Draw fluid from vessels and move fluid into the cells.	A hypertonic fluid will pull a less concentrated solution into itself. Draw fluid out of the cells and into the blood
Ex: 0.9% NS LR (contains Na ⁺ , Cl ⁻ , K ⁺ , & Ca ²⁺)	Ex: D ₅ W 0.45% NS	Used for panic low Na levels (15) Ex: 3% NS 5% NS

Table 36-1 Common Intravenous Therapy Solutions, Tonicity, and Examples of Clinical Use

SOLUTION	TONICITY	EXAMPLES OF CLINICAL USE
0.9% Saline	Isotonic	Trauma, diabetic ketoacidosis, blood transfusions, hyponatremia
0.45% Saline	Hypotonic	Supplies normal daily salt and water requirements
5% Dextrose in water	Isotonic	Vehicle for some IV piggyback medications, hyperkalemia
10% Dextrose in water	Hypertonic	If TPN is abruptly discontinued
5% Dextrose in 0.9% saline	Hypertonic	Early treatment of burns
5% Dextrose in 0.45% saline	Hypertonic	Postoperative; common maintenance fluid
5% Dextrose in 0.225% saline	Isotonic	Postoperative; common maintenance fluid
Ringer lactate	Isotonic	Trauma, dehydration from severe diarrhea or vomiting
5% Dextrose in Ringer lactate	Hypertonic	Burns, dehydration from severe diarrhea or vomiting

Key: IV, intravenous; TPN, total parenteral nutrition.

Why would you give a hypotonic solution.

However, it is still common to see Roman numerals in other domains as real titles, in clerks and clocks, buildings and entertainment. Modern uses for Roman numerals People stopped using the Roman numerals in everyday life in the XIV season as the most efficient Hindu-Arabic numeration system became more popular. Each scale note has a corresponding number from 1 to 7. There is no symbol for zero in this system, since this was a contribution from Mathematics Arabes. Picture Courtesy: [Bruce Mars / Pexels] The number 4 is represented by the symbol IIII. There are 7 notes, for example in the key of the notes are C - D - E - F - G - A - B. So for the C key will be as follows: C = 1D = 2E = 3F = 4G = 5A = 6B = 7 To make a main traffic, you will touch the 1: + 3 and 5th notes of a main scale. These symbols represent larger numbers when a bar is placed on them. Important to observe the position of the letters when adding and subtracting Roman numerals. Main key - C C - F key chord pattern D - G key D - G - E - A - B key F - B bb - C key G - C - A-A-D key B key of b - e - f # db db key - gb - ab key of eb eb - ab - bb key gb gb - cb - db ab a ab - db - eb key bb bb - eb - f here is A useful table to guide you. This system of numeration is still used in certain applications in the world. What are the Roman numbers? We return to our example and we used a Roman number for each note in the key of C: C = ID = Iie = IIIIF = IVG = VA = VI The Roman numerometer I refers to the rope built in the first grade of the larger scale C. Let's get the key of C again as an example, looking at the illustration above, you will notice that note I in the key of C is C, note IV is f and note v is G. om Sometimes, instead of numbers, the Roman numbers are used. How to use a Conversion of Roman Roman numerals try to sort the numbers to add and subtract them. The opposite is true for subtraction. When a letter appears ³ a larger or equal Symbol, you do not add the numbers. Therefore, the chord pattern I - IV - V for the key of C A@:C (note I) = C - E - G (1st + 3rd + 5th note of the scale C)F (note IV) = F - A - C (1st + 3rd + 5th note of the scale F)G (note V) = G - B - D (1st + 3rd + 5th note of the scale C) There are many songs that were written using the chord pattern I - IV - V. "Home on the Range"® an example. Alternative forms of Roman numerals In the standard form of Roman numerals, each number has a fixed value. Editors sometimes separate caps in books with Roman numerals, and musicians use them to indicate larger and smaller numbers. Roman numerals plus a symbol (+) refer to an augmented string. For example, a slash over the letter X denotes the number 10,000. You do not add one to five, which is equal to six. Combinations of letters must be added and subtracted according to traditional rules. AAAA AAAnAnAnAnAnA As the value of I@ is less than the value of X, subtract one from ten, which A@ equals nine. Let's look at another example this time using the smaller scale C: C = 1D = 2Eb = 3F = 4G = 5Ab = 6Bb = 7 To make a smaller scale, you will not play the 1st + 3rd + 5th notes of a smaller scale. Before you learn how to form certain chords you should not first learn about scales. In our example A@ C - E - G, that A@ the major chord of C. They enter the Numeric Roman numerals and let the tool convert them into more recognizable Hindu-Air Numbers. Instead of the numbers commonly used today, they were based on letters to represent numbers. This was the default number used used throughout Europe during the Middle Ages, and they used it for nearly two millennia before converting to the Hindu-Arabic number notation. In our example it is C - Eb - G, that's the C minor chord. For example, in the combination VI, the value of I is smaller than the value of V. In one alternative form of Roman numerals, users add symbols together. Another alternative form leaves out the letters V and L. In addition to the standard form of Roman numerals, there were alternative forms that did not follow all of the standard rules. IX is nine. For example, the number 9 in standard Roman numeral format is IX. For example, it@AAAs not uncommon to find the number 9 written as XIII instead of IX. Practice playing the I - IV - V chord pattern for every major key and listen to how it sounds as this might inspire you to come up with a great melody for your song. Roman numerals are part of the numbering system used by ancient Romans. Uppercase Roman numerals pertain to a major chord, while lowercase Roman numerals pertain to a minor chord. Roman numeral II refers to the chord built on the second note of the C major scale, and so on. Lowercase Roman numerals with a (o) symbol refer to a diminished chord. This numerical notation uses the symbols I, V, X, L, C, D, and M in place of the Hindu-Arabic numbers 1, 5, 10, 50, 100, 500 and 1000. A scale is a series of notes that go in an ascending and descending manner. For each key, there are 3 chords that are played more than others known as "primary chords." The I - IV - V chords are built from the 1st, 4th and 5th note of a scale. ThateAAAs when people may rely on a Roman numeral conversion tool to do the calculations for them. Note: For the next entry we will omit the 7th and 8th notes to make it less confusing. The 8th note (in this example will be C) goes back to the root note but an octave higher. Standard vs. If you notice, some of the Roman numerals are capitalized while No level. No.

A patient receives all her nutrition from fluids given through the vena cava. Every 12 hours, 750 mL of a solution that is 4 % (m / v) amino acids (protein) and 25 % (m / v) glucose (carbohydrate)... ANSWER C - Normal saline, an isotonic solution, should be used when priming the IV line to avoid causing hemolysis of RBCs. Ideally, blood products should be infused as soon as possible after they are obtained; however, a 20-minute delay would not be unsafe.

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