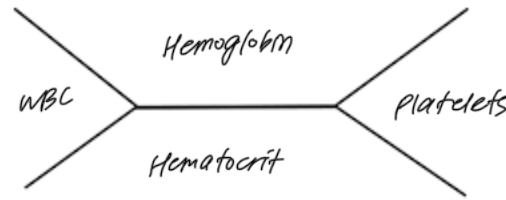
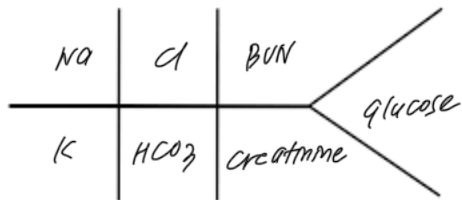


Name: *Samuel Lee*



(Correctly label each diagram)

Electrolyte	Normal Values	Hyper signs and symptoms	Hypo signs and symptoms
Sodium	135-145 mEq/L	muscle twitching agitation extreme thirst ↑ BP	muscle weakness dizziness dry mouth seizures
Potassium	3.5-5.0 mEq/L	bradycardia muscle twitching (early) muscle weakness (late)	arrhythmias muscle weakness decreased bowel sounds ST depression
Chloride	98-106 mEq/L	fatigue muscle weakness ↑ BP thirst dry mucous membranes	fever difficulty breathing confusion
Magnesium	1.7-2.3 mg/dL	weakness nausea dizziness confusion decreased reflexes seizures	hypocalcemia arrhythmias tremors
Phosphorous	2.5-4.5 mg/dL	dry skin memory problems seizures irritability tingling	numbness muscle weakness muscle pain
Calcium	8.6-10.2 mg/dL	weakness nausea abdominal pain constipation thirst	irregular heart beat tingling

IV fluid	Type (colloid, crystalloid)	Tonicity
Normal Saline (____% saline)	crystalloid	isotonic
D5W (5% dextrose in water)	crystalloid	isotonic
Lactated Ringers (LR)	crystalloid	isotonic

1. Your patient is admitted with the following labs. What is the patient's primary problem? What signs and symptoms may they exhibit? What treatments would you anticipate?:

115 | 97 | 6
 3.0 | 22 | 0.8
 75 4.5 12.7
 40% 150

↓ Na
 ↓ K
 ~ HCO₃
 ~ BUN
 ↓ Creatinine
 ↓ Glucose
 ~ WBC
 ~ platelets

2. What are the primary differences between colloids and crystalloids?
3. The patient admitted after cardiac surgery has a CVP of 1.4 mmHg and is ordered 500mL of IV albumin. As if you were educating the patient, describe albumin (what it does, why it was ordered, contraindications, etc).

Volume Overload	Dehydration
<p>Signs/Symptoms:</p> <p> \uparrow BP swelling / edema bloating headache </p> <p> <i>shortness of breath</i> </p>	<p>S/S:</p> <p> \downarrow BP dizziness dry skin & mouth confusion </p>
<p>Management:</p> <p> <i>diuretics</i> <i>reducing salt intake</i> <i>fluid limit</i> <i>dialysis</i> </p>	<p>Management:</p> <p> <i>either crystalloids or colloids</i> <i>blood transfusion</i> <i>treat the cause</i> </p>

	Met. Acidosis	Met. Alkalosis	Resp. Acidosis	Resp. Alkalosis
Cause(s)				
S/S				
Treatment				