

Week 9 Preparation Worksheet

Name: Sheronda Jackson

Renal Review

1. J.H. is a 12-year-old boy diagnosed with glomerulonephritis thought to be secondary to a streptococcal throat infection. J.H. had been diagnosed with nephrotic syndrome several months prior to his most recent clinic visit. At his latest clinic visit, a decrease in urine output, increasing lethargy, hyperventilation, and generalized edema are noted. Trace amounts of protein are detected in J.H.'s urine. Blood is drawn for laboratory analysis, which reveals the following:
pH = 7.36 – normal
PaCO₂ = 33 mm Hg – normal
PaO₂ = 100 mm Hg – normal, on high end
HCO₃ – = 18 mEq/L – low
Hct = 30% -- low
Na⁺ = 130 mEq/L – low
K⁺ = 5.4 mEq/L -- **elevated**
BUN = 58 mg/dl – **elevated**
creatinine = 3.9 mg/dl – **elevated**
albumin = 2.0 g/dl – **low**
 - a. What are the clues/cues you recognize? **Proteinuria, elevated BUN, elevated Creatine, elevated K⁺, low Na⁺, low albumin, low bicarb, generalized edema**
 - b. What could it mean? **Pt is experiencing nephrosis but is on his way to renal failure.**
 - c. What labs are out of range? What might they indicate? **pt elevated BUN and Creatine indicate his kidneys are not functioning properly. Low bicarb could indicate dehydration. Compensated metabolic acidosis. His K⁺ is elevated and hematocrit is low, these labs indicate renal failure. Low albumin and hyponatremia, indicate nephrosis.**
2. P.W. was the victim of a hit-and-run auto-pedestrian accident and suffered multiple abrasions, a concussion, and a deep laceration of the left thigh. He was discovered approximately 2 hours after the incident and is now in the emergency department. P.W.'s vital signs and hematocrit suggest that he has had a major blood loss of about 2000 ml. A catheter is inserted to monitor urine output, and P.W. is fluid resuscitated while his wounds are cleaned and sutured. The urine output is quite low, with high urine osmolality and low urine sodium.
 - a. Recognize the Clues/Cues: What matters? **Major blood loss, decrease in urine output, high urine osmolality, low Na⁺**
 - b. Analyze the Cues: What could it mean? **P.W. is in stage of prerenal oliguria. Kidney will function as it should if blood volume and perfusion pressure are low; kidney will retain fluid and sodium and produce concentrated urine.**
3. A 48-year-old white man presents to the emergency department with unremitting right flank pain. He denies dysuria or fever. His pain had a sudden onset today after working out in the yard all day in the hot sun. He does report significant nausea without vomiting. He has never experienced anything like this before. On examination he is afebrile, and his blood pressure is 160/80 mm Hg with a pulse rate of 110/min. He is writhing on the gurney, unable to find a comfortable position. His right flank is mildly tender to palpation, and abdominal examination is benign. Urinalysis is significant for 1+ blood, and microscopy reveals 10–20 red blood cells per high-power field. The patient is intravenously hydrated and given pain medication with temporary relief.
 - a. Recognize the Cues: What matters? **Unremitting right flank pain, nausea, working in hot sun all day, tender to palpation, blood in urine**
 - b. Analyze the Cues: What could it mean? **Nephrolithiasis**
 - c. Hypothesize: What could we do? **Continue high amounts of fluid intake, rest, dietary changes depending on the type of stone, treat nausea**

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