NURSING COACHING INSTITUTE

- * Nursing Entrance (B.Sc., Post Basic & M.Sc.)
- * Nursing Govt. Recruitment Exams
- * NCLEX-MOH-HAAD-DHA
- * Nursing Tuitions (GNM, B.Sc., Post Basic, M.Sc.)

PRACTICE QUESTIONS (POST BASIC NURSING EXAM AIIMS 2018)

- A patient who is comatose is admitted to the hospital with an unknown history. Respirations are deep and rapid. Arterial blood gas levels on admission are pH, 7.20; PaCO2, 21 mm Hg; PaO2, 92 mm Hg; and HCO3-, 8. You interpret these laboratory values to indicate:
 - A. Metabolic acidosis
 - B. Metabolic alkalosis
 - C. Respiratory acidosis
 - D. Respiratory alkalosis
- A patient with a cardiac history is taking the diuretic furosemide (Lasix) and is seen in the emergency department for muscle weakness. Which laboratory value do you assess first?
 - A. Serum albumin
 - B. Serum sodium
 - C. Hematocrit
 - D. Serum potassium
- Which of these patients do you expect will need teaching regarding dietary sodium restriction?
 - An 88-year-old with a fractured femur scheduled for surgery
 - B. A 65-year-old recently diagnosed with heart
 - C. A 50-year-old recently diagnosed with asthma and diabetes
 - D. A 20-year-old with vomiting and diarrhea from gastroenteritis
- You teach patients to replace sweat, vomiting, or diarrhea fluid losses with which type of fluid?
 - A. Tap water or bottled water
 - B. Fluid that has sodium (salt) in it
 - C. Fluid that has K+ and HCO3- in it
 - D. Coffee or tea, whichever they prefer
- You assess four patients. Which patient is at greatest risk for the development of hypocalcemia?
 - A. 56-year-old with acute kidney renal failure
 - B. 40-year-old with appendicitis
 - C. 28-year-old who has acute pancreatitis
 - D. 65-year-old with hypertension and asthma
- Which of the following activities can you delegate to nursing assistive personnel (NAP)? (Select all that
 - A. Measuring oral intake and urine output
 - B. Preparing intravenous (IV) tubing for routine change C. Reporting an IV container that is low in fluid

 - D. Changing an IV fluid container
- Assessment findings consistent with intravenous (IV) fluid infiltration include: (Select all that apply.)
 - A. Edema and pain
 - B. Streak formation
 - C. Pain and erythema
 - D. Pallor and coolness
 - E. Numbness and pain
- Which of the following defining characteristics is consistent with fluid volume deficit?
 - A. A 1-lb (0.5 kg) weight loss, pale yellow urine
 - B. Engorged neck veins when upright, bradycardia
 - C. Dry mucous membranes, thready pulse, tachycardia
 - D. Bounding radial pulse, fl at neck veins when supine
- Which of the following assessments do you perform routinely when an older adult patient is receiving intravenous 0.9% NaCl?
 - A. Auscultate dependent portions of lungs
 - B. Check color of urine
 - C. Assess muscle strength
 - D. Check skin turgor over sternum or shin

- While receiving a blood transfusion, your patient develops chills, tachycardia, and flushing. What is your priority action?
 - A. Notify a health care provider
 - B. Insert an indwelling catheter
 - C. Alert the blood bank
 - D. Stop the transfusion
- The health care provider's order is 1000 mL 0.9% NaCl with 20 mEq K+ intravenously over 8 hours. Which assessment finding causes you to clarify the order with the health care provider before hanging this fluid?
 - A. Flat neck veins
 - B. Tachycardia
 - C. Hypotension
 - D. Oliquria
- Your patient who has diabetic ketoacidosis is breathing rapidly and deeply. Intravenous (IV) fluids and other treatments have just been started. What should you do about this patient's breathing?
 - Notify her health care provider that she is hyperventilating
 - Provide frequent oral care to keep her mucous B. membranes moist
 - Ask her to breathe slower and help her to calm C. down and relax
 - Assess her for pain and request an order for a sedative
- Your patient had 200 mL of ice chips and 900 mL 13. intravenous (IV) fluid during your shift. Which total intake should you record?

 - A. 700 mL B. 900 mL
 - C. 1000 mL
 - D. 1100 mL
- The health care provider's order is 1000 mL 0.9% NaCl IV over 6 hours. Which rate do you program into the infusion pump?
 - A. 125 mL/hr
 - B. 167 mL/hr
 - C. 200 mL/hr
 - D. 1000 mL/hr
- Place the following steps for intravenous (IV) catheter insertion in the correct order:
 - A. Perform hand hygiene
 - B. Open and prepare infusion set
 - C. Select appropriate vein and insert catheter
 - D. Use two identifiers to ensure correct patient
 - E. Assess for risk factors such as age or platelet count
 - F. Carefully check the health care provider's order for the IV therapy
- 3.5 5.0 mEq/L; Maintains resting membrane potential of skeletal, smooth, and cardiac muscle, allowing for normal muscle function:
 - A. Potassium
 - B. Ionized Calcium
 - C. Magnesium
 - D. Phosphate
- 4.5 5.3 mg/dL; Influences excitability of nerve and muscle cells, necessary for muscle contraction:
 - A. Potassium
 - B. Ionized Calcium
 - C. Magnesium
 - D. Phosphate
- 1.5 2.5 mEg/L; Influences function of neuromuscular junctions and is a cofactor for numerous enzymes:
 - A. Potassium
 - B. Ionized Calcium

- - C. Magnesium
 - D. Phosphate
- 2.7 4.5 mg/dL; Necessary for production of ATP, the energy source for cellular metabolism:
 - A. Potassium
 - B. Ionized Calcium
 - C. Magnesium
 - D. Phosphate
- Bilateral muscle weakness that begins in quadriceps and may ascend to respiratory muscles; abdominal distention; decreased bowel sounds; constipation; cardiac dysrhythmias; signs of digoxin toxicity at normal digoxin levels:
 - A. Hypokalemia
 - B. Hyperkalemia
 - C. Hypocalcemia
 - D. Hypercalcemia
 - E. Hypomagnesemia
 - F. Hypermagnesemia
- Bilateral muscle weakness in quadriceps, transient abdominal cramps and diarrhea, cardiac dysrhythmias, cardiac arrest:
 - A. Hypokalemia
 - B. Hyperkalemia
 - C. Hypocalcemia
 - D. Hypercalcemia
 - E. Hypomagnesemia
 - F. Hypermagnesemia
- 22. Measures the hydrogen ion concentration in the body fluids (7.35 - 7.45).
 - A. pH
 - B. PaCO2
 - C. PaO2
 - D. Oxygen saturation
 - E. Base Excess
 - F. Bicarbonate
- Is the partial pressure carbon dioxide in arterial blood (35-45).

 - A. pH B. PaCO2
 - C. PaO2
 - D. Oxygen saturation
 - E. Base Excess
 - F. Bicarbonate
- Is the partial pressure of oxygen in the blood (80 100).
 - A. pH
 - B. PaCO2
 - C. PaO2
 - D. Oxygen saturation
 - E. Base Excess
- F. Bicarbonate Is the point at which hemoglobin is saturated by oxygen (95% - 99%).
 - A. pH
 - B. PaCO2
 - C. PaO2
 - D. Oxygen saturation
 - E. Base Excess
 - F. Bicarbonate
- Is the amount of blood buffer (hemoglobin and bicarbonate) that exists (+2).
 - A. pH
 - B. PaCO2
 - C. PaO2
 - D. Oxygen saturation
 - E. Base Excess
 - F. Bicarbonate
- Is the major component in the bicarbonate buffer system, which buffers metabolic acids.

 - A. pH B. PaCO2

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- D. Oxygen saturation
- E. Base Excess
- F. Bicarbonate
- 28. Headache, lightheadedness, decreased level of consciousness (confusion, lethargy, coma), cardiac dysrhythmias. pH < 7.35, PaCO2 > 45 mm Hg (6.0 kPa), HCO3- level normal if uncompensated or >26 mEq/L (>26 mmol/L) if compensated.
 - A. Respiratory Acidosis
 - B. Respiratory Alkalosis
 - C. Metabolic Acidosis
 - D. Metabolic Alkalosis
 - Increased depth rate of respirations (hyperventilation), lightheadedness, numbness & of extremeties and circumoral region (parasthesias), excitement and confusion possibly followed by decreased level of consciousness, cardiac dysrhythmias. pH > 7.45, PaCO2 < 35 mm Hg (< 4.7kPa), HCO3- level normal if short lived or uncompensated or < 22 mEq/L (< 22 mmol/L) if compensated, K+ level may be decreased (< 3.5 mEq/L) Ionized Ca++ level may be decreased (< 4.5
 - A. Respiratory Acidosis
 - B. Respiratory Alkalosis

 - C. Metabolic Acidosis
 D. Metabolic Alkalosis
- Decreased level of consciousness (lethargy, confusion, coma), abdominal pain, cardiac dysrhythmias, increased rate and depth of respirations (compensatory hyperventilation). pH <7.35, PaCO2 normal if uncompensated or < 35 mm Hg (4.7 kPa) if compensated HCO3 level < 22 mEq/L (< 22 mmol/L) Anion gap normal or high, depending on cause. K+ level may be elevated (> 5.0 mEq/L), depending on cause
 - A. Respiratory Acidosis
 - B. Respiratory Alkalosis
 - C. Metabolic Acidosis
 - D. Metabolic Alkalosis
- Lightheadedness, numbness and tingling of fingers, toes and circumoral region (paesthesias); possible excitement and confusion followed by decreased level of conscious, cardiac dysrhythmias (may be attributable to hypokalemia). pH >7.45, PaCO2 normal if uncompensated or > 45 mm Hg (> 6.0 kPa) if comensated HCO-3 >26 mEq/L (>26 mEq/L (>26 mmol/L), K+ level often decreased (< 3.5 mEq/L) Ionized Ca++ level may be decreased (< 4.5 mg/dL).
 - A. Respiratory Acidosis
 - B. Respiratory Alkalosis
 - C. Metabolic Acidosis
 - D. Metabolic Alkalosis
- Patients who retain fluids and have fluid volume excess require what?
 - A. Restriction of fluids
 - B. Parenteral replacement of fluids & electrolytes
 - C. Total parenteral nutrition (TPN)
 - D. Intravenous (IV) therapy
 - E. Vascular access devices (VAD)
- Includes TPN, crystalloids, and colloids.
 - A. Restriction of fluids
 - B. Parenteral replacement of fluids & electrolytes
 - C. Total parenteral nutrition (TPN)
 - D. Intravenous (IV) therapy
 - E. Vascular access devices (VAD)
- Is a nutritionally adequate hypertonic solution consisting of glucose, nutrients, and electrolytes administered centrally or peripherally, it is formulated to meet a patient's needs.

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- A. Restriction of fluids
- B. Parenteral replacement of fluids & electrolytes
- C. Total parenteral nutrition (TPN)
- D. Intravenous (IV) therapy
- E. Vascular access devices (VAD)
- Is used to correct or prevent fluid and electrolyte imbalances.
 - A. Restriction of fluids
 - B. Parenteral replacement of fluids & electrolytes
 - C. Total parenteral nutrition (TPN)
 - D. Intravenous (IV) therapy
 - E. Vascular access devices (VAD)
- Are catheters, cannulas, or infusion ports designed for repeated access to the vascular system.
 - A. Restriction of fluids
 - B. Parenteral replacement of fluids & electrolytes
 - C. Total parenteral nutrition (TPN)
 - D. Intravenous (IV) therapy
 - E. Vascular access devices (VAD)
- Dextrose 5% in water, 0.9% sodium chloride (normal saline), lactated Ringers solution.
 - A. Isotonic electrolyte solution
 - B. Hypotonic electrolyte solution
 - C. Hypertonic electrolyte solution
- 38. 0.45% sodium chloride (half normal saline), 0.33% sodium chloride (one-third normal saline).
 - A. Isotonic electrolyte solution
 - B. Hypotonic electrolyte solution
 - C. Hypertonic electrolyte solution
- Dextrose 10% in water, 3% to 5% sodium chloride, dextrose 5% in 0.9% sodium chloride, dextrose 5% in 0.45% sodium chloride, dextrose 5% in lactated Ringer's solution.
 - A. Isotonic electrolyte solution
 - B. Hypotonic electrolyte solution
 - C. Hypertonic electrolyte solution
- The universal blood donor is:
 - A. Type A
 - B. Type B
 - C. Type O
 - D. Type AB
- The universal blood recipient is:
 - A. Type A
 - B. Type B
 - C. Type O
 - D. Type AB
- Is an antigen-antibody reaction and can range from mild response to a severe anaphylactic shock, which can be life threatening:
 - A. ABO system
 - B. Transfusion reaction
 - C. Autotransfusion
 - D. Venipuncture
- Is the collection and reinfusion of a patient's own blood:
 - A. ABO system
 - B. Transfusion reaction
 - C. Autotransfusion
 - D. Venipuncture
- Is a technique in which a vein is punctured through the skin by a rigid stylet (butterfly), a stylet covered with a plastic cannula (ONC), or a needle attached to a syringe:
 - A. ABO system
 - B. Transfusion reaction
 - C. Autotransfusion
 - D. Venipuncture
- The body fluids constituting the interstitial fluid and blood plasma are:
 - A. Hypotonic
 - B. Hypertonic
 - C. Intracellular

- D. Extracellular
- Mrs. Green's arterial blood gas results are as follows: pH 7.32; PaCO2 52 mm Hg; PaO2 78 mm Hg; HCO3-24 mEq/L. Mrs. Green has:
 - A. Metabolic acidosis
 - B. Metabolic alkalosis
 - C. Respiratory acidosis
 - D. Respiratory alkolosis
- Mr. Frank is an 82-year-old patient who has had a 3day history of vomiting and diarrhea. Which symptom would you expect to find on a physical examination?
 - A. Tachycardia
 - B. Hypertension
 - C. Neck vein distention
 - D. Crackles in the lungs
- Which of the following is most likely to result respiratory alkolosis?
 - A. Steroid use
 - B. Fad dieting
 - C. Hyperventilation
 - D. Chronic alcoholism
- Hyperkalemia may be the result of chronic diarrhea.
 - A. True
 - B. False
- A nursing student learns the difference between 50. Trousseau's Chvostek's and signs. A Chvostek's sign elicits which of the following?
 - A. Bilateral muscle weakness in the quadriceps
 - B. Bilateral muscle weakness of the respiratory muscles
 - C. Carpal spasm with hypoxia
 - D. Contraction of facial muscles when a facial nerve is tapped
- Hypercalcemia and hypermagnesemia increase neuromuscular excitability.
- A nursing student studies acid-base balance. Which two organs are responsible for acid excretion, which helps maintain acid-base balance?
 - A. Lungs and kidneys
 - B. Kidneys and liver
 - C. Bladder and bowel
 - D. Lungs and bladder
- A nursing student studies the difference between metabolic acidosis and alkalosis. Which increases blood HCO-3?
 - A. Metabolic alkalosis
 - B. Metabolic acidosis
- Which individual would least likely suffer from a disturbance in fluid volume, electrolyte, or acid-base
 - A. An infant suffering from gastroenteritis for three days
 - B. An elderly client suffering from a type I decubitus
 - C. Adults with impaired cardiac function
 - D. Clients who are confused
- An elderly patient was hydrated with lactated Ringer's solution in the emergency room for the last hour. During the most recent evaluation of the patient by the nurse, a finding of a rapid bounding pulse and shortness of breath were noted. Reporting this episode to the physician, the nurse suspects that the patient now shows signs of:
 - A. Hypovolemia, and needs more fluids
 - B. Hypervolemia, and needs the fluids adjusted
 - C. An acid-base disturbance
 - D. Needing no adjustment in fluid administration
- A client taking lasix (furosemide) for congestive heart failure is seeing the physician for a potassium value of 3.0. An order for oral potassium taken daily is written and discussed with the client. In addition, potassiumrich foods should be eaten. The nurse educator meets

- with this client and has the client identify all of the following foods as potassium-rich except:
- A. Baked potato
- B. White bread
- C. Apricot
- D. Orange juice
- 57. Edema that forms in clients with kidney disease is due to:
 - A. Reduced plasma oncotic pressure, so that fluid is not drawn into the capillaries from interstitial tissues
 - B. Decreased capillary hydrostatic pressures pushing fluid into the interstitial tissues
 - C. Capillaries becoming less permeable, allowing fluid to escape into interstitial tissues
 - D. Obstructed lymph flow that assists the movement of fluid from the interstitial tissues back into the vascular compartment
- 58. A client suffering from a narcotic overdose is seen in the Emergency Department. The client is confused, with warm, flushed skin, headache, and weakness. Vital signs are T 102.6, HR 128, R 24, and BP 130/86. A blood gas analysis sample was drawn on room air, and the results are as follows: pH 7.33, PaCO2 53, PaO2 72, HCO3 24. This client is at risk for:
 - A. Respiratory acidosis
 - B. Respiratory alkalosis
 - C. Metabolic acidosis
 - D. Metabolic alkalosis
- Measurements related to fluid balance of clients that a nurse can initiate without a physician's order include:
 - A. Daily weights, vital signs, and fluid intake and output
 - B. Daily weights, diuretics, and waist measurement
 - C. Monitoring temperature, fluid intake and output, and calorie count
 - D. Auscultating lung sounds, monitoring color of urine, and placing a Foley catheter into the client
- 60. The nurse has been invited to discuss "the importance of promoting a good fluid and electrolyte balance in children" for a group of parents at the local school parents club meeting. Of the following actions, which is not representative of this topic?
 - A. Recognizing possible risk factors for fluid and electrolyte balance, such as prolonged or repeated vomiting, frequent watery stools, or inability to consume fluids
 - B. Increasing fluid intake before, during, and after strenuous exercise, particularly when the environmental temperature is high, and replacing lost electrolytes from excessive perspiration as needed with commercial electrolyte solutions
 - C. Consuming six to eight glasses of water daily
 - D. Encouraging excessive amounts of foods or fluids high in salt or caffeine
- 61. The nurse is admitting a new client, 80 years old, with congestive heart failure into your home health agency. The following assessment findings have been determined after meeting the client: overweight but no gain since the client left the hospital two days ago; VS: T 99.0, HR 100, R 22, BP 130/86. Foods eaten include canned soup at each meal, ham, and cheese. When completing the care plan for this client, the nurse should include which of the following nursing diagnosis:
 - A. Improved Gas Exchange
 - B. Risk for Fluid Volume Deficit
 - C. Risk for Fluid Volume Imbalance
 - D. Impaired Skin Integrity
- 62. The results of an arterial blood gas are as follows: pH: 7.5, PaCO2: 50, PaO2: 88, HCO3: 28; Base excess: +5. Evaluate the acid-base imbalance.
 - A. Metabolic Acidosis with base compensation
 - B. Metabolic Alkalosis with a respiratory compensation

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- C. Respiratory Acidosis with a base compensation
- D. Respiratory Acidosis with a respiratory compensation
- 63. Following surgery, the client requires a blood transfusion. The main reason the nurse wants to complete the unit transfusion within a four-hour period that blood:
 - Hanging for longer than four hours creates an increased risk of sepsis
 - B. May clot in the bag
 - C. May evaporate
 - D. May not clot in the recipient after this time period
- 64. Nurse would be most concerned about which lab values obtained from a client receiving furosemide (Lasix) therapy?
 - A. BUN 20
 - B. K 3.4
 - C. Creatinine 1.1
 - D. K 3.2
- 55. The nurse should observe for a Trousseau sign (a carpopedal spasm) in her patient with which of the following electrolyte abnormalities?
 - A. Hypokalemia
 - B. Hyponatremia
 - C. Hypochloremia
 - D. Hypocalcemia
- 66. A nurse inserts a nasogastric tube, and it immediately drains 1000 mL of fluid. Which of the following electrolyte levels should she be most concerned with at this time?
 - A. Na
 - B. K
 - C. CI
 - D. CO2
- 67. The WBC count of a patient is 18,000 which the nurse attributes to which of the following health problems?
 - A. Arthritis
 - B. Alcoholism
 - C. Viral infection
 - D. Wound dehisience
- 68. The majority of the body's water is contained in which of the following fluid compartments?
 - A. Interstitial
 - B. Intracellular
 - C. Extracellular
 - D. Intravascular
- 69. If the blood plasma has a higher osmolality than the fluid within a red blood cell, the mechanism involved in equalizing the fluid concentration is:
 - A. Osmosis
 - B. Diffusion
 - C. Active transport
 - D. Facilitated diffusion
- An elderly woman was admitted to the medical unit with dehydration. A clinical indication of this problem could be:
 - A. Weight Loss
 - B. Full bounding pulse
 - C. Engorged neck veins
 - D. Kussmaul respiration
- 1. You are caring for a patient with hyponatremia. Your nursing care plan might include what?
 - A. Fluid restriction
 - B. Administration of hypotonic IV fluids
 - C. Administration of a cation exchange resin
 - D. Increased water intake for patients on nasogastric suction
- 72. A nurse is caring for a patient receiving a loop diuretic. The nurse should be alert for which of the following symptoms?
 - A. Restlessness and agitation

- - B. Paresthesis and irritability
 - C. Weak, irregular pulse and poor muscle tone
 - D. Increased blood pressure and muscle spasms
- Which of the following patients would be at the greatest for the potential development hypermagnesemia?
 - A. 83 year old man with lung cancer and hypertension
 - B. 65 year old woman with hypertension, taking adrenergic blockers
 - 42 year old woman with systemic lupus erythmatosus and renal failure
 - D. 50 year old man with benign prostatic hyperplasia and a urinary tract infection
- It is especially important for the nurse to assess for which of the following in a patient who has just undergone a total thyroidectomy?
 - A. Weight gain
 - B. Depressed reflexes
 - C. Positive Chvostek's sign
 - D. Confusion and personality changes
- The nurse anticipates that the patient with hyperphosphatemia secondary to renal failure will require what?
 - A. Calcium supplements
 - B. Potassium supplements
 - C. Magnesium supplements
 - D. Fluid replacement therapy
- The lungs act as an acid-base buffer by:
 - A. Increasing respiratory rate and depth when CO2 levels in the blood are high, reducing acid load.
 - B. Increasing respiratory rate and depth when CO2 levels in the blood are low, reducing base load.
 - C. Decreasing respiratory rate and depth when CO2 levels in the blood are high, reducing acid load.
 - D. Decreasing respiratory rate and depth when CO2 levels in the blood are low, increasing acid load.
- The topical fluid replacement for the patient with an ICF fluid volume deficit is:
 - A. Isotonic
 - B. Hypotonic
 - C. Hypertonic
 - D. A plasma expander
- A client with a history of cardiac disease is taking a potassium-wasting diuretic (furosemide) and is seen in the ER for complaints of weakness. Her nurse should expect to evaluate which laboratory values?
 - A. Albumin and protein levels
 - B. Sodium and chloride levels
 - C. Potassium and blood glucose levels
 - D. Hemoglobin level and hematocrit
- The following clients are all at risk for fluid volume excess. Which of them should you see first?
 - A. 88 year old patient with a fractured femur scheduled
 - for surgery

 B. 20 year old patient with a 6 year history of type 1 diabetes mellitus
 - C. 65 year old patient recently diagnosed with
 - congestive heart failure

 D. 50 year old patient with second degree burns on the ankles and feet
- A nurse assesses the following patients. Which patient is at greatest risk for the development of hypocalcemia?
 - A. 56 year old with acute renal failure B. 40 year old with systemic lupus erythematousus
 - C. 28 year old who has just undergone a total thyriodectomy
 - D. 65 year old with hypertension taking beta-adrenergic blockers
- Clinical assessment of dehydration can be confirmed with what findings?
 - A. 1 lb weight loss

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- B. Engorged neck vessels
- C. Dry mucous membranes
- D. Full bounding radial pulse
- The nurse anticipates that the physician will order what kind of intravenous (IV) fluid for a patient who is dehvdrated?
 - A. Ringer's lactate
 - B. 3% sodium chloride
 - C. 0.9% sodium chloride
 - D. 0.45% sodium chloride
- The physician has ordered that a patient with hypertension begin receiving a thiazide diuretic. The nurse knows that she needs to now closely monitor the client for what condition?
 - A. Hypokalemia
 - B. Hyponatremia
 - C. Hypercalcemia
 - D. Hypermagnesemia
- A nurse is collecting a sample for a blood gas analysis from a patients left wrist. After drawing the blood into the syringe, the nurse:
 - A. Adds a drop of heparin to the sample to prevent clotting
 - B. Seals the end of the syringe and places it in a cup of crushed ice and water
 - C. Places the syringe of blood in a dark bag to protect the specimen from light
 - D. Seals the syringe in a zip-lock bag and places the specimen in the out box for lab pickup
- A nurse is conducting an assessment of a patient who has an IV via a central line. The tubing is dated 4 days ago. The nurse knows that the tubing:
 - A. Is good for 3 more days, for a total of 7 days
 - Can remain in place as long as there is not a disconnection
 - C. Needs changing because it is beyond the 3 day recommended limit
 - D. Needs changing, including the IV port, because they have been in place for 4 days
- 86. One of the most common electrolyte imbalances is:
 - A. Hypokalemia
 - B. Hyponatremia
 - C. Hypercalcemia
 - D. Hypermagnesemia
- Which of the following patients is most at risk for fluid volume defecit (FVD)?
 - A. Elder adult
 - B. Adult
 - C. Child
 - D. Infant
- One reason older adults experience fluid and electrolyte imbalance and acid-base imbalances, is they:
 - A. Eat poor quality foods
 - B. Have a decreased thirst sensation
 - C. Have more stress response
 - D. Have an overly active thirst response
- Which of the following would be included in a recording of output on and I/O sheet? (Select all that apply)
 - A. Urine
 - B. Sweat
 - C. Diarrhea
 - D. Vomit
 - E. Gastric suction
 - F. Sputum
 - G. Wound drainage
- Health promotion activities for fluid and electrolyte imbalance focuses primarily on what?
 - A. Patient teaching
 - B. Dietary intake
 - C. Medication
 - D. Physician involvement in care

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- 91. Many factors are initially controlled for the IV insertion procedure. The nurse understands this begins with:
 - A. Hand washing
 - B. Checking sterility of supplies
 - C. 6 med rights
 - D. Checking IV order
- 92. What is the nurse's primary concern regarding fluid & electrolytes when caring for an elderly patient who is intermittently confused?
 - A. Risk of dehydration
 - B. Risk of kidney damage
 - C. Risk of stroke
 - D. Risk of bleeding
- 93. A nurse is planning care for a patient with severe burns. Which of the following is this patient at risk for developing?
 - A. Intracellular fluid deficit
 - B. Intracellular fluid overload
 - C. Extracellular fluid deficit
 - D. Interstitial fluid deficit
- 94. A patient is experiencing multisystem fluid volume deficit, is tachycardic, pale, cool skinned and has a decreased urine output. His nurse realizes these findings are most likely a direct result of which of the following?
 - A. The body's natural compensatory mechanisms
 - B. Pharmacological effects of a diuretic
 - C. Effects of rapidly infused IV fluids
 - D. Cardiac failure
- 95. A pregnant patient is complaining of excessive thirst, increased urination and has a medical diagnosis of diabetes insipidus. The nurse chooses which of the following nursing diagnoses as most appropriate for her?
 - A. Risk for imbalanced fluid volume
 - B. Excess fluid volume
 - C. Imbalanced nutrition
 - D. Ineffective tissue perfusion
- 96. A patient who is recovering from surgery has an indwelling urinary catheter. The nurse would contact the patients physician with which of the following 24 hour urine output volumes?
 - A. 600 mL
 - B. 750 mL
 - C. 1000 mL
 - D. 1200 mL
- 97. A patient is getting IV fluids postoperatively following cardiac surgery. What posoperative complication potential should the nurse focus their assessment on?
 - A. Fluid volume excess
 - B. Fluid volume deficit
 - C. Seizure activity
 - D. Liver failure
- 98. A patient is diagnosed with severe hyponatremia. The nurse realizes this patient will most likely need which of the following precautions implemented?
 - A. Seizure
 - B. Infection
 - C. Neutropenic
 - D. High-risk falls
- 99. A patient has hypokalemia. After reviewing the patients medications list, which of the following might the nurse suspect contributed to the patients health problem?
 - A. Corticosteroid
 - B. Thiazide diuretic
 - C. Narcotic
 - D. Muscle relaxer
- 100. A patient prescribed spironolactone is demonstrating ECG changes & complaining of muscle weakness. The nurse realizes this patient is exhibiting signs of which of the following?

- A. Hypokalemia
- B. Hypokalemia
- C. Hypercalcemia
- D. Hypocalcemia
- 101. A nurse is planning care for her patient with fluid volume overload and hyponatremia. Which of the following should be included in this patients plan of care?
 - A. Restrict fluids
 - B. Administer IV fluids
 - C. Provide Kayexalate
 - D. Administer IV normal saline with furosemide
- 102. When caring for a patient with hypocalcemia, which of the following symptoms should the nurse additionally assess in the patient?
 - A. Other electrolyte disturbances
 - B. Hypertension
 - C. Visual disturbances
 - D. Drug toxicity
- 103. A patient with a history of stomach ulcers is diagnosed with hypophosphatemia. Which of the following interventions should the nurse include into the patients plan of care?
 - A. Request a dietitian consult for selecting foods high in phosphorous
 - B. Provide aluminum hydroxide antacids as prescribed
 - C. Instruct patient to avoid poultry, peanuts & seeds
- D. Instruct patient to avoid the intake of sodium phosphate.

 104. When analyzing an arterial blood gas report of a patient
- 104. When analyzing an arterial blood gas report of a patient with COPD & respiratory acidosis, the nurse anticipates that compensation will develop through which of the following mechanisms?
 - A. The kidneys retain bicarbonate
 - B. The kidneys excrete bicarbonate
 - C. The lungs will retain carbon dioxide
 - D. The lungs will excrete carbon dioxide
- 105. A nurse is caring for a patient diagnosed with renal failure. Which of the following does the nurse recognize as compensation for the acid-base disturbance found in patients with renal failure?
 - A. The patient breathes rapidly to eliminate carbon dioxide
 - B. The patient will retain bicarbonate in excess of normal
 - C. The pH will decrease from the present value
 - D. The patients oxygen saturation level will improve
- 106. When caring for a group of patients, the nurse realizes that which of the following health problems increases the risk for metabolic alkalosis?
 - A. Bulimia
 - B. Dialysis
 - C. Venous stasis ulcer
 - D. COPD
- 107. A nurse is caring for a patient who is anxious & dizzy following a traumatic event. The arterial blood gas findings are: pH 7.48, PaO2 110, PaCo2 25, & HCO3 24. The nurse should anticipate which initial intervention to correct this problem?
 - A. Encourage the patient to breathe in & out slowly into a paper bag
 - B. Immediately administer oxygen via a mask & monitor oxygen saturation
 - C. Prepare to start an IV fluid bolus using isotonic fluids
 - D. Anticipate the administration of intravenous sodium bicarbonate
- 108. A patient is prescribed 20 mEq of potassium chloride. The nurse realizes that the reason the patient is receiving this replacement is:
 - A. To sustain respiratory function
 - B. To help regulate acid-base balance

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- C. To keep a vein open
- D. To encourage urine output
- 109. An elderly patient does not complain of thirst. What should the nurse do to assess that this patient is not dehydrated?
 - A. Ask the physician for an order to begin IV fluid replacement
 - B. Ask the physician to order a chest x-ray
 - C. Assess the urine for osmolality
 - D. Ask the physician for an order for a brain scan
- 110. An elderly patient who is being medicated for pain had an episode of incontinence. The nurse realizes that this patient is at risk for developing:
 - A. Dehydration
 - B. Over-hydration
 - C. Fecal incontinence
 - D. A stroke
- 111. The nurse assesses a patients weight loss as being 22 lbs. How many liters of fluid did this patient lose?
 - A. 10 L (1kg or 2.2 lbs) B. 15 L (1.5kg or 3 lbs)
- 112. A postoperative patient with a fluid volume deficit is prescribed progressive ambulation yet is weak from an inadepuate fluid status. What can the nurse do to help this patient?
 - A. Assist the patient to maintain a standing positions for several minutes
 - B. This patient should be on bed rest
 - C. Assist the patient to move into different positions in
 - D. Contact physical therapy to provide a walker
- 113. A postoperative patient is diagnosed with fluid volume overload. Which of the following should the nurse assess in this patient?
 - A. Poor skin turgor
 - B. Decreased urine output
 - C. Distended neck veins
 - D. Concentrated hemoglobin & hematocrit levels
- 114. An elderly patient is at home after being diagnosed with fluid volume overload. Which of the following should the home care nurse instruct this patient to do?
 - A. Wear support hose
 - B. Keep legs in a dependent position
 - C. Avouid wearing shoes while in the home
 - D. Try to sleep without extra pillows
- 115. A patient with fluid retention related to renal problems is admitted to the hospital. The nurse realizes that this patient could possibly have which of the following electrolyte imbalances?
 - A. Hypokalemia
 - B. Hypernatremia
 - C. Carbon Dioxide
 - D. Magnesium
- 116. An elderly patient comes into the clinic with a complaint of watery diarrhea for several days with abdominal & muscle cramping. The nurse realizes that this patient is demonstrating which of the following?
 - A. Hypernatremia
 - B. Hyponatrema
 - C. Fluid volmue excess
 - D. Hyperkalemia
- 117. A patient is admitted with hypernatremia caused by being stranded on a boat in the Atlantic Ocean for five days without a fresh water source. Which of the following is this patient at risk for developing?
 - A. Pulmonary edema
 - B. Atrial dysrhythmias
 - C. Cerebral bleeding
 - D. Stress fractures

- 118. A nurse is admitting a patient who was diagnosed with acute renal failure. Which of the following electrolytes will be most affected with this disorder?
 - A. Calcium
 - B. Magnesium
 - C. Phosphorous
 - D. Potassium
- 119. A patient who is taking digoxin is admitted with possible hypokalemia. Which of the following does the nurse realize might occur with this patient?
 - A. Digoxin toxicity may occur
 - B. A higher dose of digoxin may be needed
 - C. A diuretic may be needed.
 - D. Fluid volume deficit may occur
- 120. A patient is prescribed 40 mEq potassium as a replacement. The nurse realizes that this replacement should be administered:
 - A. Directly into the venous access line
 - B. Mixed in the prescribed IV fluid
 - C. Via a rectal suppository
 - D. Via intramuscular injection
- 121. An elderly patient with a history of sodium retention arrives to the clinic with the complaints of "heart skipping beats" and leg tremors. Which of the following should the nurse ask this patient regarding these

 - A. "Have you stopped taking your digoxin medication?".

 B. "When was the last time you had a bowel movement?"
 - C. "Were you doing any unusual phyical activity?"
 - D. "Are you using a solt substiture
- 122. A 35 year old female comes into the clinic postoperative parathyroidectomy. Which of the following should the nurse instruct the patient?
 - A. Drink one glass of red wine per day. B. Avoid the sun.

 - C. Milk & milk-based products will ensure an adequate calcium intake.
 - D. Red meat is the protein source of choice.
- 123. A patient is admitted for treatment of hypercalcemia. The nurse realizes that this patients IV fluids will most likely be which of the following?
 - A. Dextrose 5% & water
 - B. Dextrose 5% & ? normal saline
 - C. Dextrose 5% & 95% normal saline
 - D. Normal saline
- 124. A 28 year old male patient is admitted with diabetic ketoacidosis. The nurse realizes that this patient will have a need for which of the following electrolytes?
 - A. Sodium
 - B. Potassium
 - C. Calcium
 - D. Magnesium
- 125. A elderly patient with peripheral neuropathy has been taking magnesium supplements. The nurse realizes that which of the following symptoms can indicate hypomagnesaemia?
 - A. Hypotension, warmth, & sweating
 - B. Nausea & vomiting
 - C. Hyperreflexia
 - D. excessive urination
- 126. A patient is admitted with burns over 50% of his body. The nurse realizes that this patient is at risk for which of the following electrolyte imbalances?
 - A. Hypercalcemia
 - B. Hypophosphatemia
 - C. Hypernatremia
 - D. Hypermagnesemia
- 127. A patient is diagnosed with hyperphosphatemia. The nurse realizes that this patient might also have an imbalance of which of the following electrolytes?

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- A. Calcium
- B. Sodium
- C. Potassium
- D. Chloride
- 128. The nurse is reviewing a patients blood pH level. Which of the systems in the body regulate blood pH? (Select all that apply)
 - A. Renal
 - B. Cardiac
 - C. Buffers
 - D. Respiratory
- 129. The nurse observes a patients respirations and notes that the rate is 30 per minute & the respirations are very deep. The metabolic disorder this patient might be demonstrating is which of the following?
 - A. Hypernatremia
 - B. Increasing carbon dioxide in the blood
 - C. Hypertension
 - D. Pain
- 130. The blood gases of a patient with an acid-base disorder show a blood pH outside of normal limits. The nurse realizes that this patient is:
 - A. Fully compensated
 - B. Demonstrating anaerobic metabolism
 - C Partially compensated
 - D. In need of intravenous fluids.
- 131. A patients blood gases show a pH greater than 7.53 & bicarbonate level of 35 mEg/L. The nurse realizes that the acid-base disorder this patient is demonstrating is which of the following?
 - A. Respiratory acidosis
 - B. Metabolic acidosis
 - C. Respiratory alkalosis
 - D. Metabolic alkalosis
- 132. An elderly postoperative patient is demonstrating lethargy, confusion, & a respiration rate of 8 per minute. The nurse sees that the last dose of pain medication administered via a patient controlled anesthesia (PCA) pump was within 30 minutes. Which of the following acid-base disorders might this patient be experiencing?
 - A. Respiratory acidosis
 - B. Metabolic acidosis
 - C. Respiratory alkalosis
 - D. Metabolic alkalosis
- 133. The patient has been placed on a 1200 mL daily fluid restriction. The patients IV is infusing at a keep open rate of 10 mL/hr. The patient has no additional IV medications. How much fluid should the patient be allowed from 0700 until 1500 daily?
 - A. 540 mL
 - B. 960 ml
 - C. 1200 mL
 - D. 10 mL
- 134. The patient is receiving IV potassium (KCL). Which nursing actions are required? (Select all that apply)
 - A. Administer the dose IV push over 3 minutes
 - B. Monitor the injection site for redness
 - C. Add the ordered dose to the IV hanging.
 - D. Use an infusion controller for the IV
 - E. Monitor fluid intake & output
- 135. Which patients are at risk for the development of hypercalcemia? (Select all that apply)
 - A. The patient with a malignancy
 - B. The patient taking lithium
 - C. The patient who uses sunscreen to excess
 - D. The patient with hyperparathyroidism
 - E. The patient who overuses antacids
- 136. The patient who has a serum magnesium level of 1.4 mg/dL is being treated with dietary modification. Which foods should the nurse suggest for this patient? (Select all that apply)

- A. Bananas
- B. Seafood
- C. White rice
- D. Lean red meat
- E. Chocolate
- 137. The patient has a serum phospate level of 4.7 mg/dL. Which interdisciplinary treatments would the nurse expect for this patient? (Select all that apply)
 - A. IV normal saline
 - B. Calcium containing antacids
 - C. IV potassium phosphate
 - D. Encouraging milk intake
 - E. Increasing vitamin D intake
- 138. The patient, newly diagnosed with diabetes mellitus, is admitted to the emergency department with nausea, vomiting, and abdominal pain. ABG results reveal a pH of 7.2 & a bicarbonate level of 20 mEq/L. Which other assessment findings would the nurse anticipate in this patient? (Select all that apply)
 - A. Tachvcardia
 - B. Weakness
 - C. Dysrhythmias
 - D. Kussmaul's respirations
 - E. Cold, Clammy skin
- 139. A client develops decreased renal function and requires a change in antibiotic dosage. On which factor should the physician base the dosage change?
 - A. Therapeutic index
 - B. Gl absorption rate
 - C. Liver function studies
 - D. Creatinine clearance
- 140. A history of infection specifically caused by group A beta-hemolytic streptococci is associated with which of the following disorders?
 - Acute glomerulonephritis
 - B. Acute renal failure
 - C. Nephrotic syndrome
 - D. Chronic renal failure
- A client admitted with a gunshot wound to the abdomen is transferred to the intensive care unit after an exploratory laparotomy. IV fluid is being infused at 150 ml/hour. Which assessment finding suggests that the client is experiencing acute renal failure (ARF)?
 - A. Urine output of 250 ml/24 hr
 - B. Temperature of 100.2 F (37.8 C)
 - C. Serum creatinine level of 1.2 mg/dl
 - D. Blood urea nitrogen (BUN) level of 22 mg/dl
- 142. What is the normal range in adult arterial blood lab measurements for pH?
 - A. 7.0 7.5
 - B. 7.35 7.45
 - C. 7.25 7.35
 - D. 7.5 8.0
- 143. What is the normal range in adult arterial blood lab measurements for PaCO2 (partial pressure of carbon dioxide)?
 - A. 4.7 6 mm Hg
 - B. 15.1 20.0 mm Hg
 - C. 35 45 mm Hg
 - D. 30 50 mm Hg
- 144. What is the normal range in adult arterial blood lab measurements for HCO-3 (bicarbonate)?
 - A. 22 26 mEq/L B. 15 20 mEq/L

 - C. 25 30 mEq/L
 - D. 10 17 mEq/L
- 145. What is the normal range in adult arterial blood lab measurements for PaO2 (partial pressure of oxygen)?
 - A. 60 100 mm Hg
 - B. 50 75 mm Hg
 - C. 80 120 mm Hg

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- D. 80 100 mm Hg

 146. What is the normal range in adult arterial blood lab measurements for SaO2 (oxygen saturation)?

A. 88% - 100%

B. 90% - 95%

C. 95% - 100%

D. 80% - 100%

147. What is the normal range in adult arterial blood lab measurements for Base Excess (buffer capacity)?

A. 0 - 2 mmol/L

B. -2 to +2 mmol/L

C. -1 to +1 mmol/L

D. 0 - 5 mmol/L

148. What electrolyte can be easily absorbed by eating fruits, potatoes, instant coffee, molasses, and brazil nuts?

A. Potassium (K+)

B. Calcium (Ca2+)

- C. Magnesium (Mg2+)
- D. Phosphate (PO4)
- 149. What electrolyte requires vitamin D for best absorbtion and absorbtion of it can be hindered by undigested fat? It is best obtained by eating dairy products, canned fish with bones, broccoli and oranges.
 - A. Potassium (K+)
 - B. Calcium (Ca2+)
 - C. Magnesium (Mg2+)
 - D. Phosphate (PO4)
- 150. What electrolytes absorbtion is hindered by undigested fat and can be obtained by eating dark green leafy vegetables and whole grains?
 - A. Potassium (K+)
 - B. Calcium (Ca2+)
 - C. Magnesium (Mg2+)
 - D. Phosphate (PO4)

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ANSWERS

1	Α	26	Е	51	В	76	Α	101	Α	126	В
2	D	27	F	52	Α	77	В	102	Α	127	Α
3	В	28	Α	53	Α	78	С	103	Α	128	A,C,D
4	В	29	В	54	В	79	С	104	Α	129	В
5	С	30	С	55	В	80	Α	105	Α	130	С
6	A,C	31	D	56	В	81	С	106	Α	131	D
7	A,D	32	Α	57	Α	82	D	107	Α	132	Α
8	С	33	В	58	В	83	Α	108	В	133	Α
9	Α	34	С	59	Α	84	В	109	С	134	B,D,E
10	D	35	D	60	D	85	С	110	Α	135	A,B,D,E
11	D	36	Е	61	С	86	Α	111	Α	136	A,B,E
12	В	37	Α	62	В	87	D	112	С	137	A,B
13	С	38	В	63	Α	88	В	113	С	138	B,C,D
14	В	39	С	64	D	89	A,C,D,E,G	114	Α	139	D
15	E,F,D,A,B,C,	40	С	65	D	90	Α	115	В	140	A
16	Α	41	D	66	В	91	Α	116	В	141	Α
17	В	42	В	67	D	92	Α	117	С	142	В
18	С	43	С	68	В	93	Α	118	D	143	С
19	D	44	D	69	Α	94	Α	119	Α	144	Α
20	Α	45	D	70	Α	95	Α	120	В	145	D
21	В	46	С	71	Α	96	Α	121	D	146	С
22	Α	47	Α	72	С	97	A	122	С	147	В
23	В	48	С	73	С	98	A	123	D	148	Α
24	С	49	В	74	С	99	A	124	D	149	В
25	D	50	D	75	Α	100	A	125	Α	150	С