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**Nursing**

# BONENT-CHBT

*BONENT Certified Hemodialysis Bio-Medical Technician (CHBT)*

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### **Question: 1**

Which of the following is an example of a professional responsibility for a hemodialysis bio-medical technician?

- A. Administering medications to dialysis patients as prescribed by the physician.
- B. Assisting with the insertion of central venous catheters for dialysis access.
- C. Providing direct patient care during the dialysis treatment.
- D. Participating in ongoing professional development and continuing education.

Answer: D

Explanation: Participating in ongoing professional development and continuing education is an important professional responsibility for a hemodialysis bio-medical technician. It helps ensure that the technician remains up to date with the latest advancements in dialysis technology, regulations, and best practices, which ultimately contributes to the delivery of high-quality care to dialysis patients.

### **Question: 2**

Which of the following is an appropriate step in the reprocessing of a dialyzer before it can be reused for hemodialysis?

- A. Disinfecting the dialyzer with hydrogen peroxide.
- B. Flushing the dialyzer with sterile saline solution.
- C. Rinsing the dialyzer with tap water.
- D. Drying the dialyzer with a clean towel.

Answer: B

Explanation: After hemodialysis treatment, a dialyzer must be properly reprocessed before it can be reused. Flushing the dialyzer with sterile saline solution helps remove any residual blood and ensures that the dialyzer is clean and ready for the next use.

### Question: 3

What is the purpose of a bicarbonate concentrate in the preparation of dialysate for hemodialysis?

- A. To enhance the filtration efficiency of the dialysis machine.
- B. To remove impurities and contaminants from the water.
- C. To provide a source of sodium for electrolyte balance.
- D. To adjust the pH of the dialysate to physiological levels.

Answer: D

Explanation: The purpose of a bicarbonate concentrate in the preparation of dialysate for hemodialysis is to adjust the pH of the dialysate to physiological levels. Bicarbonate is used to buffer the dialysate, ensuring that it is in the appropriate pH range to support proper waste removal and electrolyte balance during the dialysis treatment.

### Question: 4

Which of the following factors can contribute to the development of biofilm in a dialysis water distribution system?

- A. Low water temperature in the distribution system.
- B. Frequent monitoring of water quality parameters.
- C. Regular disinfection of the water distribution system.
- D. Presence of organic matter in the water supply.

**Answer: D**

**Explanation:** The presence of organic matter in the water supply can contribute to the development of biofilm in a dialysis water distribution system. Biofilm formation occurs when microorganisms attach to surfaces and form a protective layer. Organic matter provides a nutrient source for microorganisms, supporting their growth and biofilm formation.

**Question: 5**

Which of the following is the most appropriate action to take if a hemodialysis machine displays a high arterial pressure alarm during treatment?

- A. Adjust the blood flow rate to decrease the pressure.
- B. Increase the dialysate flow rate to alleviate the pressure.
- C. Ignore the alarm and continue the treatment as usual.
- D. Check the integrity of the arterial bloodline and connections.

**Answer: D**

**Explanation:** A high arterial pressure alarm during hemodialysis treatment may indicate an issue with the arterial bloodline or connections, such as a kink or blockage. Checking the integrity of the arterial bloodline and connections is important to identify and rectify any issues that may be causing the high pressure, ensuring the safety and effectiveness of the treatment.

**Question: 6**

Which of the following is a potential consequence of inadequate maintenance of the water treatment system in a dialysis facility?

- A. Reduced efficiency of the dialysis machines.
- B. Excessive use of dialysate concentrate.

- C. Increased risk of bloodborne infections for patients.
- D. Accelerated degradation of dialyzer membranes.

**Answer: C**

**Explanation:** Inadequate maintenance of the water treatment system in a dialysis facility can lead to an increased risk of bloodborne infections for patients. The water used in dialysis must meet specific quality standards to ensure patient safety. Failure to maintain the water treatment system properly can result in the presence of contaminants, such as bacteria or endotoxins, in the dialysis water, which can potentially lead to infections in patients receiving treatment.

**Question: 7**

Which of the following is a key parameter to monitor when assessing the performance of a reverse osmosis (RO) system used in dialysis water treatment?

- A. pH level of the RO permeate
- B. Conductivity of the RO feedwater
- C. Pressure drop across the RO membranes
- D. Temperature of the RO concentrate

**Answer: C**

**Explanation:** Monitoring the pressure drop across the RO membranes is crucial in assessing the performance of a reverse osmosis system. An increase in pressure drop may indicate fouling or scaling of the membranes, which can compromise the quality of the RO permeate and necessitate maintenance or membrane replacement.



### Question: 8

Which of the following is the most appropriate action to take if a hemodialysis machine displays an error code indicating a blood leak during treatment?

- A. Check the bloodlines and connections for any visible signs of blood leakage.
- B. Notify the nurse and continue the treatment while closely monitoring the patient.
- C. Stop the treatment immediately and clamp the bloodlines.
- D. Proceed with the treatment as usual and document the error code for future reference.

Answer: C

Explanation: A blood leak during hemodialysis treatment poses a significant risk to the patient's safety and should be addressed promptly. Stopping the treatment and clamping the bloodlines helps prevent further blood loss and allows for immediate evaluation of the situation to ensure patient safety.

### Question: 9

Which of the following best describes the purpose of the acid concentrate used in a dialysis treatment?

- A. To neutralize alkaline impurities in the dialysate.
- B. To adjust the pH of the dialysate to physiological levels.
- C. To remove chlorine and other disinfectants from the water.
- D. To provide a source of bicarbonate for buffering the dialysate.

Answer: B

Explanation: The acid concentrate is used in dialysis treatment to adjust the pH of the dialysate to physiological levels. This helps create an optimal environment for effective waste removal and electrolyte balance during the dialysis procedure.

**Question: 10**

Which of the following actions should be taken if a hemodialysis machine's conductivity alarm is triggered during treatment?

- A. Stop the treatment immediately and notify the nurse.
- B. Calibrate the conductivity sensor and continue the treatment.
- C. Adjust the temperature settings to align with the conductivity reading.
- D. Check the dialysate concentrate mixing ratio and adjust if necessary.

Answer: A

Explanation: A conductivity alarm during hemodialysis treatment indicates a potential issue with the quality of the dialysate. Stopping the treatment immediately and notifying the nurse allows for a comprehensive evaluation of the situation to prevent harm to the patient and ensure that appropriate corrective measures are taken.

**Question: 11**

Which of the following is a critical aspect of documentation practices in a dialysis facility?

- A. Recording all interventions and actions taken during the dialysis treatment.
- B. Including personal opinions and subjective observations in the patient's medical record.

- C. Using abbreviations and acronyms to save time and space in the documentation.
- D. Delaying documentation until the end of the shift to ensure accuracy.

**Answer: A**

**Explanation:** Recording all interventions and actions taken during the dialysis treatment is a critical aspect of documentation practices in a dialysis facility. This helps ensure accurate and comprehensive documentation of the patient's care, which is essential for continuity of care, communication among healthcare providers, and legal and regulatory compliance.

**Question: 12**

Which of the following is the primary purpose of conducting quality assurance audits in a dialysis facility?

- A. Identifying opportunities for cost reduction and resource optimization.
- B. Evaluating the effectiveness of patient education programs.
- C. Ensuring compliance with regulatory standards and guidelines.
- D. Assessing the proficiency of the nursing staff in administering medications.

**Answer: C**

**Explanation:** Quality assurance audits in a dialysis facility are primarily conducted to assess compliance with regulatory standards and guidelines. These audits help identify areas of non-compliance and facilitate corrective actions to ensure the provision of safe and high-quality care to dialysis patients.

**Question: 13**



Which of the following is a key responsibility of a hemodialysis bio-medical technician in ensuring life-safety and physical plant maintenance?

- A. Monitoring the temperature and humidity levels in the dialysis unit.
- B. Conducting routine fire drills for the dialysis staff.
- C. Overseeing the facility's pest control program.
- D. Inspecting and maintaining the facility's emergency lighting system.

Answer: D

Explanation: Ensuring life-safety and physical plant maintenance includes inspecting and maintaining the facility's emergency lighting system. This ensures that in the event of a power outage or emergency, the dialysis unit remains adequately lit, allowing for safe patient care and evacuation if necessary.

### Question: 14

What is the purpose of conducting root cause analysis (RCA) in a dialysis facility?

- A. To identify opportunities for cost reduction and resource optimization.
- B. To investigate the underlying causes of adverse events or incidents.
- C. To assess the proficiency of staff in adhering to infection control protocols.
- D. To evaluate the effectiveness of patient education programs.

Answer: B

Explanation: Conducting root cause analysis (RCA) in a dialysis facility is done to investigate the underlying causes of adverse events or incidents. RCA helps identify the contributing factors and systemic issues that led to the occurrence of the event, allowing the facility to implement appropriate

corrective actions and prevent similar events in the future.



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