

# Fresenius Medical Care PCT Practice test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. In addition to obtaining the patient's blood pressure, pulse, and temperature during pre-treatment evaluation, what should the nurse also check for?**
  - A. Dehydration**
  - B. Peripheral Edema**
  - C. Electrolyte Imbalance**
  - D. Skin Integrity**
- 2. How should vascular access be maintained during treatment?**
  - A. Stabilized and uncovered**
  - B. Covered and secured**
  - C. Loosely stabilized**
  - D. Exposed and monitored**
- 3. How is available weight gain defined in a treatment context?**
  - A. The post-treatment weight minus dry weight**
  - B. The pre-treatment weight minus dry weight**
  - C. The actual weight gained during dialysis**
  - D. The baseline weight minus accumulated weight**
- 4. How can a PCT assist in maintaining sterile technique during dialysis?**
  - A. By avoiding PPE and cleaning the area less frequently**
  - B. By wearing appropriate PPE and following infection control protocols**
  - C. By using any available cleaning agents**
  - D. By allowing unrestricted access to the work area**
- 5. What are contraindications for using a hemodialysis access site?**
  - A. Healthy blood flow**
  - B. Presence of severe allergies**
  - C. Infection and thrombosis**
  - D. Normal access site function**

- 6. How can dialysis disequilibrium syndrome be prevented?**
- A. By increasing the dialysis frequency**
  - B. By careful fluid removal and gradual dialysis initiation**
  - C. By using higher doses of medication**
  - D. By encouraging more physical activity**
- 7. What is indicated by bright red blood in the venous chamber during dialysis?**
- A. Normal blood flow**
  - B. Sign of potential hemolysis**
  - C. Sign of infection**
  - D. Presence of venous air embolism**
- 8. What role do patient care technicians play in infection control during dialysis?**
- A. Providing medication**
  - B. Following sterile techniques**
  - C. Conducting patient interviews**
  - D. Managing financial records**
- 9. What is the primary responsibility of the RN in a dialysis facility regarding patient care?**
- A. Implementation of the Clinical Pathway**
  - B. Development of Medication Protocols**
  - C. Implementation of the Plan of Care**
  - D. Monitoring Patient Satisfaction**
- 10. What factor can lead to increased risk of complications during hemodialysis?**
- A. Use of a fistula**
  - B. Low fluid intake**
  - C. High blood pressure**
  - D. Trans membrane pressure**

## **Answers**

SAMPLE

1. B
2. A
3. B
4. B
5. C
6. B
7. B
8. B
9. C
10. C

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## **Explanations**

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**1. In addition to obtaining the patient's blood pressure, pulse, and temperature during pre-treatment evaluation, what should the nurse also check for?**

**A. Dehydration**

**B. Peripheral Edema**

**C. Electrolyte Imbalance**

**D. Skin Integrity**

In the context of pre-treatment evaluation, checking for peripheral edema is crucial because it can indicate the patient's fluid status and overall cardiovascular health. Peripheral edema refers to swelling in the limbs due to the accumulation of fluids, which can result from various conditions, including heart failure, renal issues, or even medication effects. Assessing for peripheral edema allows the nurse to evaluate the patient's risk for complications during treatment, particularly in dialysis or fluid management scenarios. Monitoring for peripheral edema is essential to ensure that the patient's fluid balance is well managed, particularly in patients with conditions that affect kidney function or fluid overload. Identifying any signs of swelling early can prompt further evaluation or adjustments in treatment plans to prevent more severe complications. Thus, this assessment is a crucial part of the comprehensive pre-treatment evaluation.

**2. How should vascular access be maintained during treatment?**

**A. Stabilized and uncovered**

**B. Covered and secured**

**C. Loosely stabilized**

**D. Exposed and monitored**

The optimal maintenance of vascular access during treatment is to keep it covered and secured to ensure optimal functioning and reduce the risk of complications such as infection and dislodgement. Covering the vascular access points protects the area from contaminants and minimizes exposure to the external environment, which is crucial in a clinical setting. Securing the access ensures that it remains in place during dialysis, preventing accidental removal or movement that could disrupt the treatment process. While some options might seem viable, they do not provide the combination of protection and stability that is essential for effective vascular access management. For example, loosely stabilized or exposed access could increase the risk of complications due to potential contamination or movement, jeopardizing the treatment's effectiveness and patient safety. Therefore, maintaining vascular access in a manner that is both covered and secured is paramount for effective treatment and patient care in dialysis.

**3. How is available weight gain defined in a treatment context?**

- A. The post-treatment weight minus dry weight**
- B. The pre-treatment weight minus dry weight**
- C. The actual weight gained during dialysis**
- D. The baseline weight minus accumulated weight**

Available weight gain in the context of dialysis treatment refers specifically to how much weight a patient has gained from excess fluid accumulation, which can often be due to dietary intake, fluid intake, and other factors before the start of treatment. The correct definition involves taking the pre-treatment weight and subtracting the dry weight, which is the target weight achieved after dialysis when the excess fluid has been removed. This measurement is critical because it helps dialysis providers understand how much fluid a patient needs to remove during a session. By knowing the pre-treatment weight, healthcare professionals can assess the patient's fluid status and adjust their treatment plan accordingly to prevent complications related to fluid overload, ensuring both comfort and safety during treatment. Other definitions, such as the post-treatment weight minus dry weight, would not accurately reflect how much fluid the patient was carrying prior to treatment. Similarly, actual weight gained during dialysis or comparing baseline weight would not provide the needed insights into fluid management.

**4. How can a PCT assist in maintaining sterile technique during dialysis?**

- A. By avoiding PPE and cleaning the area less frequently**
- B. By wearing appropriate PPE and following infection control protocols**
- C. By using any available cleaning agents**
- D. By allowing unrestricted access to the work area**

A Patient Care Technician (PCT) plays a crucial role in maintaining sterile technique during dialysis, and wearing appropriate personal protective equipment (PPE) along with adhering to infection control protocols is fundamental to this process. Appropriate PPE, such as gloves, gowns, masks, and face shields, acts as a barrier to prevent the transmission of pathogens between the patient and healthcare provider, thus minimizing the risk of infection. Following established infection control protocols is vital because these guidelines are designed based on best practices to ensure a safe environment for both patients and staff. These protocols include proper hand hygiene, using sterile equipment, and regularly disinfecting surfaces to avoid contamination. By committing to these practices, the PCT not only protects the patient but also contributes to the overall effectiveness and safety of dialysis procedures. In contrast, other options represent practices that would undermine sterile technique: avoiding PPE or inadequately cleaning the area would increase infection risks, using any available cleaning agents could lead to ineffective cleaning or chemical reactions, and allowing unrestricted access would expose the sterile environment to potential contaminants. Thus, the correct answer emphasizes the importance of proper PPE and adherence to established protocols in maintaining a sterile environment during dialysis procedures.

**5. What are contraindications for using a hemodialysis access site?**

- A. Healthy blood flow**
- B. Presence of severe allergies**
- C. Infection and thrombosis**
- D. Normal access site function**

The correct choice highlights that infection and thrombosis are significant contraindications for using a hemodialysis access site. Infections at the access site can lead to systemic issues, including the risk of sepsis, making it unsafe for dialysis. If the access site is infected, it must be treated before it can be safely used for dialysis. Thrombosis refers to the formation of a blood clot within the access site, which can obstruct blood flow necessary for effective dialysis treatment. If an access site is thrombosed, it cannot provide the required blood flow for dialysis sessions, necessitating intervention to restore patency or the use of an alternative site. The other options do not present valid contraindications: healthy blood flow indicates that the access site is functioning well, while normal access site function suggests it can be used. Severe allergies may affect other aspects of patient care but are not directly related to the use of the hemodialysis access site itself.

**6. How can dialysis disequilibrium syndrome be prevented?**

- A. By increasing the dialysis frequency**
- B. By careful fluid removal and gradual dialysis initiation**
- C. By using higher doses of medication**
- D. By encouraging more physical activity**

Dialysis disequilibrium syndrome (DDS) primarily occurs due to a rapid shift of solutes, particularly urea, from the blood into the dialysate during a dialysis session. This sudden change can cause neurological symptoms due to cerebral edema. To effectively prevent DDS, it is essential to initiate dialysis gently and manage fluid removal carefully. Beginning dialysis treatment gradually helps the body adapt to changes in fluid and solute levels, reducing the risk of rapid diffusion that could lead to DDS. In practice, this often involves careful monitoring and adjustments to the dialysis parameters, like time, blood flow rate, and dialysate composition, ensuring a more stable state during treatment. Other options, such as increasing dialysis frequency or using higher doses of medication, do not directly address the fundamental issue of solute imbalance and rapid changes in blood composition that lead to DDS. Encouraging physical activity, while beneficial for overall health, does not significantly impact the prevention of dialysis disequilibrium syndrome during treatment. Therefore, a careful approach to fluid removal and a gradual initiation of dialysis are key strategies in preventing this syndrome.

**7. What is indicated by bright red blood in the venous chamber during dialysis?**

- A. Normal blood flow**
- B. Sign of potential hemolysis**
- C. Sign of infection**
- D. Presence of venous air embolism**

The indication of bright red blood in the venous chamber during dialysis is aligned with the potential for hemolysis. When hemolysis occurs, red blood cells break down, releasing hemoglobin and other cellular components into the bloodstream. This breakdown can lead to the appearance of bright red blood as the hemoglobin is released and becomes more pronounced in the venous chamber. Hemolysis can result from various factors, including mechanical trauma from the dialysis machine, temperature fluctuations, or improper anticoagulation. Bright red blood serves as a visual cue for healthcare providers that something may be wrong, prompting further investigation to identify the underlying cause and implement necessary corrective measures. In contrast, other options like signs of infection or air embolism would typically present with different characteristics in the blood, such as discoloration or the presence of bubbles, not bright red blood. Normal blood flow would generally not specifically denote the occurrence of hemolysis, as venous return can appear normal even if hemolysis is occurring. Therefore, understanding the implications of bright red blood in this context is essential for timely and effective patient assessment and intervention during dialysis.

**8. What role do patient care technicians play in infection control during dialysis?**

- A. Providing medication**
- B. Following sterile techniques**
- C. Conducting patient interviews**
- D. Managing financial records**

Patient care technicians play a crucial role in infection control during dialysis primarily by following sterile techniques. This practice is essential because maintaining a sterile environment helps to prevent the introduction of pathogens that can lead to infections in patients undergoing dialysis treatments. Properly adhering to sterile techniques involves a variety of actions such as thorough handwashing, wearing personal protective equipment, and ensuring that all equipment used during the dialysis process is properly cleaned and sterilized before and after each patient's use. By focusing on maintaining this sterile environment, technicians help to minimize the risk of nosocomial infections—those that can develop in patients receiving care in a medical facility. This aspect of their role is vital, as infection control is a significant concern in dialysis settings, where patients often have weakened immune systems. In contrast, while providing medication, conducting patient interviews, and managing financial records are important aspects of patient care and hospital administration, they do not directly contribute to infection control during the dialysis procedure as following sterile techniques does.

**9. What is the primary responsibility of the RN in a dialysis facility regarding patient care?**

- A. Implementation of the Clinical Pathway**
- B. Development of Medication Protocols**
- C. Implementation of the Plan of Care**
- D. Monitoring Patient Satisfaction**

The primary responsibility of the registered nurse (RN) in a dialysis facility is to implement the plan of care for patients. This involves ensuring that all aspects of patient treatment and care are conducted according to established protocols and guidelines. The RN plays a crucial role in assessing patient conditions, administering prescribed treatments, and coordinating with other healthcare professionals to provide a comprehensive approach to patient care. Implementing the plan of care encompasses monitoring patients' vital signs, managing dialysis equipment, and responding to any complications that arise during treatment. The RN also educates patients about their condition and management, which is essential for fostering adherence to their treatment plans and improving outcomes. While the implementation of the clinical pathway, development of medication protocols, and monitoring patient satisfaction are important aspects of a healthcare facility's operations, they do not directly describe the primary focus of an RN's responsibilities in patient care. The RN's direct interaction with patients and their need to execute a tailored plan of care make this the most critical role in a dialysis facility.

**10. What factor can lead to increased risk of complications during hemodialysis?**

- A. Use of a fistula**
- B. Low fluid intake**
- C. High blood pressure**
- D. Trans membrane pressure**

High blood pressure is a significant factor that can lead to an increased risk of complications during hemodialysis. Patients with uncontrolled hypertension are at a higher risk for cardiovascular events and can experience complications related to fluid overload. Elevated blood pressure can also complicate the procedure itself, impacting blood flow rates and need for adjustments in medication. During hemodialysis, achieving optimal hemodynamic stability is essential for the safety and effectiveness of the treatment. If a patient's blood pressure is too high, it may lead to issues such as vascular access complications or an increased risk of thrombosis during the procedure. Therefore, managing hypertension is crucial to minimize risks and ensure successful dialysis treatment.