

Surgical Tech Practice Exam (Sample)

Study Guide



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Questions

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- 1. What item is typically used to remove gross soil from instruments in preparation for the decontamination process?**
 - A. Wet towel**
 - B. Surgical sponge**
 - C. Sterile-water soaked sponge**
 - D. Alcohol wipe**
- 2. Which staff member is responsible for "opening the case" during a surgical procedure?**
 - A. Surgeon**
 - B. Scrub nurse**
 - C. Nonsterile personnel**
 - D. Circulating nurse**
- 3. What parameters should be used for sterilizing a Frazier suction in a Gravity Displacement Steam Sterilizer for immediate use?**
 - A. 250 degrees F for 15 minutes**
 - B. 270 degrees F for 10 minutes**
 - C. 275 degrees F for 5 minutes**
 - D. 260 degrees F for 20 minutes**
- 4. Creutzfeldt-Jacob Disease (CJD) requires what specific action regarding surgical instruments?**
 - A. Use of sterilizable instruments**
 - B. Use of disposable instruments**
 - C. Delayed use of instruments**
 - D. Regular cleaning of instruments**
- 5. In the surgical field, what is the term "anesthesia" primarily associated with?**
 - A. Intuition during surgery**
 - B. Pain management during surgical procedures**
 - C. Monitoring vital signs**
 - D. Wound healing after surgery**

- 6. What does "aseptic technique" refer to in surgery?**
- A. Techniques to enhance visibility during surgery**
 - B. Procedures performed to prevent contamination and infection**
 - C. Methods for storing surgical instruments**
 - D. Protocols for patient communication**
- 7. Which of the following is essential for minimizing infections in the surgical environment?**
- A. Patient isolation**
 - B. Standard operating procedures**
 - C. Infection control practices**
 - D. Sterile draping**
- 8. During a counted surgical hand scrub, how many strokes are required on the fingernails?**
- A. 15**
 - B. 30**
 - C. 10**
 - D. 5**
- 9. What is essential to maintain during a surgical procedure to prevent postoperative infections?**
- A. Patient mobility**
 - B. Sterile technique**
 - C. Surgeon communication**
 - D. Instrument efficiency**
- 10. Which technique enables precise smaller movements in robotic-assisted surgery?**
- A. Scaled movement**
 - B. Hand stabilization**
 - C. Direct manipulation**
 - D. Feedback control**

Answers

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

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Explanations

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1. What item is typically used to remove gross soil from instruments in preparation for the decontamination process?

- A. Wet towel**
- B. Surgical sponge**
- C. Sterile-water soaked sponge**
- D. Alcohol wipe**

The item most commonly used to remove gross soil from instruments in preparation for the decontamination process is a sterile-water soaked sponge. This type of sponge is effective because it can be moistened to assist in loosening and removing blood, tissue, and other debris from the instruments, which is essential to ensure a thorough cleaning before they undergo further decontamination procedures. Using a sterile-water soaked sponge is critical as it helps prevent the drying of organic materials, which can make them more challenging to clean later. It ensures that instruments are adequately prepped for subsequent cleaning steps, such as ultrasonic cleaning or piston cleaning, where thorough decontamination is required. Other options like a wet towel can introduce additional contaminants or may not be effective in removing soils, while surgical sponges and alcohol wipes do not provide the necessary moisture for effective soil removal. Surgical sponges are generally used for absorbing fluids during a surgical procedure, and alcohol wipes may not be ideal for removing gross soil, as they are better suited for disinfecting surfaces rather than cleaning instruments.

2. Which staff member is responsible for "opening the case" during a surgical procedure?

- A. Surgeon**
- B. Scrub nurse**
- C. Nonsterile personnel**
- D. Circulating nurse**

The responsibility of "opening the case" during a surgical procedure typically falls to the scrub nurse. This staff member prepares the sterile field and handles the instruments and supplies needed during the surgery. The scrub nurse is responsible for ensuring that all necessary surgical instruments are sterile and ready for use, which is a critical aspect of the initial setup when the case is opened. The surgeon, while integral to the procedure, does not handle the setup or opening of the case—they focus on the surgical aspects. Nonsterile personnel may assist in various ways, but they do not manage the sterile environment required for the operation. The circulating nurse supports the operation by managing tasks outside of the sterile field, such as obtaining supplies or ensuring communication between the team and others in the hospital. Their role is vital but does not include the direct opening of the case.

3. What parameters should be used for sterilizing a Frazier suction in a Gravity Displacement Steam Sterilizer for immediate use?

- A. 250 degrees F for 15 minutes
- B. 270 degrees F for 10 minutes**
- C. 275 degrees F for 5 minutes
- D. 260 degrees F for 20 minutes

The appropriate parameters for sterilizing a Frazier suction in a Gravity Displacement Steam Sterilizer for immediate use are set at 270 degrees F for 10 minutes. This setting ensures that the sterilization process is effective in eliminating all microbial life, including bacterial spores, which are the most resistant forms of microorganisms. When performing sterilization, it is crucial to choose the right temperature and time combination to ensure that the item being sterilized reaches the necessary conditions for effective sterilization. At 270 degrees F, the shorter time of 10 minutes is sufficient due to the increased temperature, allowing for a rapid and thorough sterilization process. While other temperature and time combinations are generally effective for sterilization, they do not match the efficacy and efficiency provided by the chosen parameters. For example, 250 degrees F for 15 minutes may not be adequate for immediate use because it operates at a lower temperature, potentially extending the time required for full sterilization. Similarly, while 275 degrees F for 5 minutes may seem effective due to the higher temperature, it is important to follow established protocols that have been validated for specific instruments and methods. Lastly, 260 degrees F for 20 minutes extends the time unnecessarily without achieving a higher level of safety or

4. Creutzfeldt-Jacob Disease (CJD) requires what specific action regarding surgical instruments?

- A. Use of sterilizable instruments
- B. Use of disposable instruments**
- C. Delayed use of instruments
- D. Regular cleaning of instruments

Creutzfeldt-Jacob Disease (CJD) is a rare and fatal neurodegenerative disorder caused by prions, which are misfolded proteins that can lead to severe brain damage. Prions are significantly more resistant to conventional sterilization methods than bacteria and viruses, making the handling of surgical instruments that may have been in contact with infected tissue particularly critical. Using disposable instruments is the most effective method for preventing transmission of CJD, as it eliminates the risk of prion contamination entirely. Once a disposable instrument is used, it can be safely discarded, thus preventing any potential prion exposure to both patients and healthcare personnel. This approach is essential because even rigorous sterilization techniques used for reprocessable instruments may not completely eliminate prions, leading to concerns about cross-contamination in clinical settings. The other considerations, such as using sterilizable instruments, delayed use, or regular cleaning, do not adequately address the inherent risks posed by prions. Prion contamination would not be effectively managed by sterilization methods alone, and merely cleaning or delaying the use of instruments still leaves open the chance for transmission. Therefore, opting for disposable instruments serves as the best preventative strategy in the context of CJD.

5. In the surgical field, what is the term "anesthesia" primarily associated with?

- A. Intuition during surgery**
- B. Pain management during surgical procedures**
- C. Monitoring vital signs**
- D. Wound healing after surgery**

The term "anesthesia" is primarily associated with pain management during surgical procedures. Anesthesia refers to the practice of administering medication that causes a loss of sensation or awareness, which is crucial during surgeries to ensure that patients do not experience pain or distress while undergoing operations. By using anesthesia, surgical teams can effectively perform procedures ranging from minor to major surgery while keeping patients comfortable and stable. This ability to manage pain not only helps the patient remain calm and still during surgery but also plays a significant role in the overall success of the procedure and the patient's recovery. The other choices do touch on aspects related to surgery, but they do not specifically define the core purpose of anesthesia. Intuition during surgery refers more to the skill and experience of the surgical team. Monitoring vital signs is essential for ensuring patient safety but is a separate area of focus from pain management, while wound healing concerns the recovery phase post-surgery and is not directly related to the purpose of anesthesia.

6. What does "aseptic technique" refer to in surgery?

- A. Techniques to enhance visibility during surgery**
- B. Procedures performed to prevent contamination and infection**
- C. Methods for storing surgical instruments**
- D. Protocols for patient communication**

Aseptic technique in surgery refers to the procedures performed to prevent contamination and infection during surgical procedures. This practice is crucial because it minimizes the risk of introducing pathogens into the surgical site, which can lead to surgical site infections, complications, and prolonged recovery times. Aseptic techniques include a variety of practices such as handwashing, using sterile instruments, wearing appropriate surgical attire, and maintaining a sterile field throughout the surgical process. These measures are essential in creating a safe environment for both the surgical team and the patient by ensuring that the risk of infection is kept at a minimum. The other options, while relevant to the surgical environment, do not accurately define aseptic technique. Techniques to enhance visibility, methods for storing surgical instruments, and protocols for patient communication focus on different aspects of surgical practice but do not address the primary goal of aseptic technique, which is infection prevention.

7. Which of the following is essential for minimizing infections in the surgical environment?

- A. Patient isolation**
- B. Standard operating procedures**
- C. Infection control practices**
- D. Sterile draping**

Infection control practices are essential for minimizing infections in the surgical environment because they encompass a wide range of protocols and procedures designed to prevent the transmission of pathogens. These practices include hand hygiene, the use of personal protective equipment, sterilization of instruments, and maintaining a sterile field during procedures. By implementing these infection control measures, the surgical team can significantly reduce the risk of surgical site infections and protect both patients and healthcare workers from potential infections. While patient isolation, standard operating procedures, and sterile draping each play a role in infection prevention, they do not encompass the comprehensive strategies that infection control practices represent. Patient isolation is important in certain contexts but does not apply to all surgical scenarios. Standard operating procedures are critical for establishing consistent practices but are not specifically focused on infection prevention alone. Sterile draping is vital for maintaining a sterile environment during surgery, but it is just one aspect of the broader infection control practices that are necessary to minimize infections effectively. Thus, infection control practices serve as a foundational element in creating a safe surgical environment.

8. During a counted surgical hand scrub, how many strokes are required on the fingernails?

- A. 15**
- B. 30**
- C. 10**
- D. 5**

The correct answer is based on the standard practice guidelines for surgical hand scrubs, which emphasize the importance of thorough cleansing to reduce the risk of surgical site infections. During this procedure, the recommendation is to perform 30 strokes on the fingernails. This specific number is intended to ensure that all surfaces of the nails, which can harbor bacteria, are properly cleaned. The procedure often includes a careful approach to scrubbing each nail, followed by the use of a nail cleaning tool to effectively remove any debris. The focus on 30 strokes helps to maximize the reduction of microbial load before donning sterile gloves, which is crucial in maintaining aseptic technique in the operating room environment.

9. What is essential to maintain during a surgical procedure to prevent postoperative infections?

- A. Patient mobility**
- B. Sterile technique**
- C. Surgeon communication**
- D. Instrument efficiency**

Maintaining sterile technique during a surgical procedure is crucial for preventing postoperative infections. This involves creating and preserving an environment where pathogens are minimized, ensuring that instruments, the surgical site, and the team members are all free from contamination. When sterile technique is adhered to, the risk of introducing bacteria and other harmful microorganisms into the body is significantly reduced, thereby protecting the patient from potentially serious infections that can complicate recovery. Sterile technique encompasses practices such as proper handwashing, use of gloves, sterilization of instruments, and draping the surgical area with sterile covers. Failure to maintain these standards can lead to surgical site infections (SSIs), which are a major concern in surgical settings and can lead to extended hospital stays and additional interventions. While aspects like patient mobility, surgeon communication, and instrument efficiency are important for overall patient outcomes and surgical success, they do not directly address the prevention of infections in the same way that strict adherence to sterile technique does. Prioritizing sterile technique is foundational to surgical safety and patient care.

10. Which technique enables precise smaller movements in robotic-assisted surgery?

- A. Scaled movement**
- B. Hand stabilization**
- C. Direct manipulation**
- D. Feedback control**

The technique that enables precise smaller movements in robotic-assisted surgery is scaled movement. This approach is fundamental to robotic systems, allowing the surgeon to perform maneuvers that are more refined than what could be achieved with human hands alone. In scaled movement, the robotic instruments interpret the surgeon's larger hand movements and convert them into scaled-down, more delicate movements at the surgical site. This scaling factor enhances precision, which is critical during intricate procedures where every small adjustment can significantly affect outcomes. This capability directly contributes to improved dexterity and control during surgery, making the procedure safer and more effective for delicate anatomical structures, reducing the risk of unintentional damage.