BAKER COLLEGE
STUDENT LEARNING OUTCOMES

SUR 2210 Surgical Technology Lab I
2 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Evaluate the purpose of proper OR attire.
    a. Define proper attire for entering the restricted area of the surgical floor.
    b. Demonstrate proper donning and doffing of sterile surgical attire.
    c. Describe proper PPE for the surgical field.
    d. Demonstrate the proper technique for gowning and gloving another team member.
2. Differentiate between a medical handwash and a surgical hand scrub.
    a. Demonstrate proper technique for a medical handwash.
    b. Demonstrate proper technique for a counted brush stroke surgical hand scrub.
3. Investigate the procedures for preparing the operating room for a surgical case.
    a. Identify standard OR equipment and furniture.
    b. Describe the purpose of a surgeon preference card.
4. Create a sterile field.
    a. Apply the principles of asepsis to movement around the sterile field.
    b. Evaluate the integrity of items to be used in the sterile field.
    c. Organize items on the sterile field.
    d. Demonstrate the proper technique for draping a mayo stand.
    e. Demonstrate the proper technique for opening sterile surgical instruments and supplies for use on the sterile field.
        i. rigid container
        ii. wrapped
        iii. peel packed
    f. Evaluate methods for correcting contaminations to the sterile field.
5. Examine the surgical instrumentation for General, Laparoscopic and Plastic Surgery.
    a. State the name of each instrument.
    b. Classify instruments based on function.
    c. Demonstrate proper handling and passing of instruments.
6. Investigate methods of instrument decontamination.
    a. Define point of use decontamination.
    b. Demonstrate the proper method of point of use decontamination.
    c. Demonstrate proper method for instrument inspection after decontamination.
7. Demonstrate the proper technique for assembling an instrument set.

    a. Explain the purpose of the count sheet.
8. Investigate the different methods for packaging surgical instruments.
    a. Demonstrate the assembly of an instrument tray.
    b. Describe the process for peel packaging sterile instruments and supplies.
    c. Demonstrate the proper technique for:
        i. envelope fold
        ii. square fold
9. Demonstrate the proper method for operating a steam sterilizer.
    a. State the procedure for preparing instruments for steam sterilization.
    b. State the temperature parameters for sterilizer types:
        i. gravity displacement
        ii. pre-vac sterilizer
10. Evaluate the methods of sterile storage and distribution.
    a. Explain event related sterility as it relates to storage of sterile instruments and supplies.
    b. Describe the use of case carts for distribution.

Big Ideas and Essential Questions

Big Ideas

- OR Attire
- Hand washing
- Operating room preparation
- Creating the sterile field
- Surgical instrumentation
- Instrument decontamination
- Instrument sterilization
- Surgical supply storage and distribution
- Methods of steam sterilization
- Sterile packaging of instruments

Essential Questions

1. How does the attire worn by healthcare professionals contribute to infection control and patient safety within the surgical environment?

2. How do the differences between a surgical hand scrub and a medical hand wash impact the level of cleanliness required in a surgical setting?

3. How do the steps involved in preparing an operating room for a surgical case ensure an optimal environment for successful surgical procedures?

4. Reflecting on the process of creating a sterile field, what precautions and techniques do you believe are essential to prevent contamination during a surgical operation?
5. How do general, plastic and laparoscopic instruments vary in their design and function for different surgical procedures?
6. When investigating methods of instrument decontamination, what factors would you consider critical in ensuring the complete removal of contaminants while preserving instrument integrity?
7. How do packaging methods contribute to maintaining sterility of instruments and supplies?
8. How do distribution methods for sterile instruments and supplies contribute to their storage method and sterility?
9. How to exposure times and instrument preparation vary between a pre-vac sterilizer and a gravity displacement sterilizer?
10. How are the principles of asepsis applied to the preoperative phase of surgical intervention?

These SLOs are not approved for experiential credit.

Effective: Summer 2024