

SURT-2851: CLINICAL EXPERIENCE III

Cuyahoga Community College

Viewing: SURT-2851 : Clinical Experience III

Board of Trustees:

January 2024

Academic Term:

Fall 2024

Subject Code

SURT - Surgical Technology

Course Number:

2851

Title:

Clinical Experience III

Catalog Description:

Practical application of previously learned surgical skills at assigned affiliated hospital. Basic competency of scrub skills relating to general, gynecological and specialty surgical procedures. Students perform primarily in the first scrub role during operative procedures, increasing in proficiency. Weekly Certified Surgical Technologist (CST) Exam review and post-clinical experience discussion. Seminar: 1 hour per week. Note: Listed lecture hour reflects contact time for required seminar.

Credit Hour(s):

3

Lecture Hour(s):

0

Other Hour(s):

240

Other Hour Details:

Practicum: 16 hours per week in hospital setting; Seminar: 1 hour per week; Note: Listed lecture hour reflects contact time for required seminar

Requisites

Prerequisite and Corequisite

SURT-1921 Clinical Experience II, BIO-2341 Anatomy and Physiology II, BIO-2500 Microbiology and concurrent enrollment in SURT-2300 Surgical Specialties.

Outcomes

Course Outcome(s):

A. Distinguish the functionality of the operating room environment as it pertains to the surgical technologist.

Objective(s):

1. Demonstrate the process of cleaning procedures, traffic patterns and routines in the operative environment.
2. Recall and explain the physical components of the OR.
3. Recall and list the hazards to the patient and OR staff in the operative environment.
4. Recognize and explain support services that work with the OR team in the care of the patient.

Course Outcome(s):

B. Practice and perform as a surgical technologist by demonstrating competent case management skills with minimal assistance in the First Scrub Role.

Objective(s):

1. Explain and show the principles related to the transferring and transporting of the surgical patient.
2. Summarize and reproduce elements of surgical positioning.
3. Utilize and apply the practice of sterile technique.
4. Determine and utilize appropriate procedures related to disinfection and sterilization.
5. Perform techniques of opening and preparing supplies and instruments needed for the operative procedure, with the maintenance of sterile technique at all times.
6. Demonstrate the proper technique for the surgical hand scrub, gowning, gloving and assisting team members.
7. Prepare supplies and instruments on the sterile field using the proper technique.
8. Initiate and demonstrate the proper procedure for counting instruments, sponges, needles and other items on the sterile field.
9. Demonstrate the principles of surgical draping.
10. Initiate the steps for beginning a surgical procedure.
11. Explain and demonstrate intraoperative handling of sterile equipment and supplies.
12. Demonstrate proper handling of suture materials and stapling devices.
13. Explain and demonstrate proper handling of instruments and equipment.
14. Demonstrate proper handling of drugs and solutions onto the sterile field.
15. Determine and illustrate the proper handling of surgical specimens.
16. Apply critical thinking problem solving skills in the operative setting.
17. Select and utilize appropriate clinical resource material to aid in knowledge of surgical procedures.
18. Discuss and demonstrate postoperative routines.
19. Prepare dressing and drains.
20. Clean and prepare instruments for terminal sterilization.
21. Perform a room turn-over.
22. Assist with transfer and transport of patient when necessary.
23. Build on previous learning experiences by applying knowledge gained from previous operative procedures to similar specialty procedures.
24. Perform a minimum of 120 surgical cases throughout all program clinical experiences.
25. Perform 30 cases in General Surgery; 20 of the cases must be in the First Scrub Role.
26. Perform 90 cases in various surgical specialties; 60 of the cases must be in the First Scrub Role.

Course Outcome(s):

C. Demonstrate professional conduct when working in the operating room environment while in the role of a surgical technology student.

Objective(s):

1. Speak and behave professionally.
2. Demonstrate punctuality.
3. Recognize and consider constructive criticism.
4. Articulate and comply with hospital and college policies.
5. Display a positive attitude.
6. Collaborate and function as a team member.

Course Outcome(s):

D. Recall previous surgical technology subject matter in preparation for the CST Examination.

Essential Learning Outcome Mapping:

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

Objective(s):

1. Describe and illustrate the aspects of perioperative patient care.
2. Recall and incorporate the principles of basic and related sciences.

3. Apply principles of biomedical sciences in the operative setting.
 4. Utilize surgical technology terminology and techniques to demonstrate knowledge of surgical procedures.
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Methods of Evaluation:

1. Demonstration of skills
2. Clinical attendance and evaluations
3. Written assignments
4. Seminar attendance and participation

Course Content Outline:

1. Operating room environment
 - a. General knowledge
 - b. Aseptic technique
 - c. Anatomy and Physiology
 - d. Anesthesia routines
 - e. Standard precautions
 - f. Critical thinking
2. Preoperative skills
 - a. Preparation of proper supplies
 - b. Opening supplies
 - c. Positioning
 - d. Skin prep
 - e. Time organization
3. Intraoperative skills
 - a. Scrubbing, gowning and gloving
 - b. Table set-up
 - c. Draping
 - d. Instrumentation
 - e. Sutures/staplers
 - f. Specimen care
 - g. Medication/solutions
 - h. Counting instruments, sponges and sharps
 - i. Sterile/clean/contaminated procedures
 - j. Organization of sterile field
 - k. Anticipation of surgical team
 - l. Sterilization of instruments/equipment
- m. Assistant circulating skills
- n. 120 surgical cases
- o. Scrub roles
 - i. First scrub role - Must meet the following five criteria as well as the criteria of the second scrub role
 1. Verify supplies and equipment needed for surgical procedures
 2. Set up the sterile field with instruments, supplies, equipment, medication(s), and solutions needed for the procedure
 3. Perform counts with the circulator prior to the procedure and before the incision is closed
 4. Pass instruments and supplies to the sterile team members during the procedure
 5. Maintain sterile technique as measured by recognized breaks in technique and demonstrate knowledge of how to correct with appropriate technique
 - ii. Second scrub role - The second scrub role is defined as the student who is at the sterile field who has not met all the criteria for the first scrub role but actively participates in the surgical procedure in its entirety by completing any of the following:
 1. Sponging
 2. Suctioning
 3. Cutting Suture
 4. Holding retractors
 5. Manipulating endoscopic camera
 6. Assists with a diagnostic endoscopy

7. Assists with vaginal delivery

- iii. Observation role - The observation role is defined as the student who is in the operating room performing roles that do not meet the criteria for the first or second scrub role. These observation cases are not to be included in the required case count but must be documented by the program.
- p. General Surgery - 30 cases required, 20 in First Scrub Role
- q. Surgical Specialties - 90 cases required, 60 in First Scrub Role
 - i. Cardiothoracic
 - ii. ENT
 - iii. Eye
 - iv. GU
 - v. Neuro
 - vi. Ob-Gyn
 - vii. Oral/Maxillofacial
 - viii. Orthopedics
 - ix. Peripheral vascular
 - x. Plastics
 - xi. Procurement/Transplant
- 4. Postoperative skills
 - a. Dressing/drains
 - b. Terminal sterilization of instruments
 - c. Transfer/transport of patient
- 5. Professional development
 - a. Professional conversation
 - b. Punctuality
 - c. Constructive criticism
 - d. Hospital/college policies
 - e. Flexibility
 - f. Surgical conscience
 - g. Positive attitude
 - h. Team attitude
- 6. Preparation for the CST Examination
 - A. Individual review
 - B. Class review
 - C. Perioperative patient care
 - 1. Preoperative routines
 - 2. Intraoperative routines
 - 3. Postoperative routines
 - D. Basic and related sciences
 - 1. Anatomy and physiology
 - 2. Pathophysiology
 - 3. Microbiology
 - 4. Pharmacology
 - 5. Anesthesia
 - 6. Medical terminology
 - 7. Aseptic technique
 - 8. Wound healing
 - E. Biomedical Sciences
 - 1. Computers
 - 2. Electricity
 - 3. Robotics
 - F. Surgical Procedures

Resources

Association of Surgical Technologists, et al. *Surgical Technology for the Surgical Technologist: A Positive Care Approach*. 5th ed. Boston: Cengage Learning, 2018.

Dankanich, Nancy. *Operating Room Skills*. 2nd ed. Upsaddle River: Pearson Education Inc., 2020.

Fuller Kotcher, Joanna. *Surgical Technology Principles and Practice*. 8th ed. St. Louis: Elsevier, 2022.

Goldman, Maxine A. *Pocket Guide to the Operating Room*. 4th ed. Philadelphia: F. A. Davis, 2020.

Phillips, Nancy Marie. *Berry and Kohn's Operating Room Technique*. 14th ed. St. Louis: Mosby, 2021.

Pieknik, Rebecca. *Suture and Surgical Hemostasis*. 1st ed. St. Louis: Elsevier Mosby, 2006.

Rogers, Emily W., McGuinness Leary, Ann Marie. *Pearson's Surgical Technology Exam Review*. 4th ed. Hoboken, NJ: Pearson Education, Inc., 2020.

Rothrock, J. C. *Alexander's Care of the Patient in Surgery*. 17th ed. St. Louis: Mosby, 2023.

Rothrock, J. C. and Sherri Alexander. *Alexander's Surgical Procedures*. 1st ed. St. Louis: Elsevier Mosby, 2012.

Rutherford, Colleen J. *Differentiating Surgical Equipment and Supplies*. 3rd ed. Philadelphia: F. A. Davis, 2023.

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Venes, Donald, ed. *Taber's Cyclopedic Medical Dictionary*. 23rd ed. Philadelphia: Davis, 2017.

Top of page

Key: 4172