

SURT-1330: GENERAL SURGERY

Cuyahoga Community College

Viewing: SURT-1330 : General Surgery

Board of Trustees:

January 2024

Academic Term:

Fall 2024

Subject Code

SURT - Surgical Technology

Course Number:

1330

Title:

General Surgery

Catalog Description:

Presentation and discussion of general surgery. Includes steps of operative procedure, features of general surgery, hemostasis, operative drains, surgical specimens, layers of abdominal wall, abdominal incisions and laparotomy. Discussion on operative procedures may include hernia procedures of the abdominal region, liver and biliary procedures, pancreas and spleen procedures, gastric and related esophageal procedures, lower gastrointestinal procedures, breast surgery, gynecological and obstetrical procedures and plastics/reconstructive surgery.

Credit Hour(s):

5

Lecture Hour(s):

5

Requisites

Prerequisite and Corequisite

SURT-1300 Introduction to Surgery, SURT-130L Surgery Lab and concurrent enrollment in SURT-1911 Clinical Experience I.

Outcomes

Course Outcome(s):

A. Distinguish the characteristics and features of the abdominal wall, digestive system, hepatic and biliary system, pancreas, spleen, thyroid, breast, hand, and gynecological procedures.

Objective(s):

1. Discuss relevant anatomy and physiology regarding general, plastic and gynecological procedures.
2. Identify pathology and related terms of general, plastic and gynecological procedures.

Course Outcome(s):

B. Recognize various diagnostic interventions utilized to confirm specific types of pathology associated with general, plastic, and gynecological procedures.

Objective(s):

1. Identify diagnostic exams performed to prepare the patient for surgical procedure.
2. Correlate preoperative tests performed to prepare the patient for surgical procedure.

Course Outcome(s):

C. Apply the basic case management skills associated with general, plastic, and gynecological procedures.

Objective(s):

1. Discuss special considerations related to surgical procedures.
 2. Discuss and identify the selection and administration of anesthesia related to surgical procedure.
 3. Apply the principles of surgical positioning to the surgical procedure.
 4. Identify suture materials and their usage.
 5. Identify, describe the use of and demonstrate proper handling of the various types of surgical needles.
 6. Discuss steps of the surgical skin preparation for the surgical site.
 7. Describe the appropriate surgical draping needed for the surgical procedure.
 8. Identify the options regarding surgical incisions available to perform the surgical procedure.
 9. Identify routine and specialty supplies that will be used during the surgical procedure.
 10. Correlate suture, medications, drains, equipment, and instrumentation with the steps of the surgical procedure.
 11. Discuss steps of selected surgical procedures.
 12. Correlate the process of counting instruments, sponges, needles, and other items on the sterile field with the preoperative, intraoperative and postoperative phases of the surgical procedure.
 13. Discuss appropriate dressing material to be used on the surgical wound.
 14. Identify the proper procedure of specimen care related to the surgical procedure.
 15. Discuss the postoperative destination and postoperative care considerations of the patient.
 16. Discuss the prognosis and complications related to the surgical procedure.
 17. Identify and discuss the rationale of wound classification related to the surgical procedure.
 18. Identify and describe related surgical procedures.
 19. Identify methods of retraction exposure available to surgical team.
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Methods of Evaluation:

1. Examinations
2. Quizzes
3. Assignments
4. Class attendance and participation

Course Content Outline:

1. Diagnostic procedures
 - a. Terms and definitions
 - b. Common methods of diagnosis
 - c. Radiology equipment
 - d. Basic diagnostic procedures
 - e. Endoscopic diagnostic procedures
2. Introduction to general surgery
 - a. Goals and reasons for surgical intervention
 - b. Surgical complications
 - c. Anatomical groups of general surgery
 - d. Abdominal quadrants
 - e. Anatomy of the anterior abdominal wall and abdominal cavity
 - f. Surgical incisions and wound exposure
 - i. Suture
 - ii. Retraction exposure
 - iii. Abdominal incisions
 - g. Steps of a laparotomy procedure
3. Surgical Procedures
 - a. Thyroid surgery
 - b. Hernia surgery
 - c. Hepatic/biliary surgery
 - d. Pancreatic surgery
 - e. Splenic surgery
 - f. Upper gastrointestinal surgery
 - g. Lower gastrointestinal surgery
 - h. Breast surgery
 - i. Gynecological surgery
 - j. Plastic surgery
 - k. Hand surgery

4. Case Management
 - a. Anatomy
 - b. Physiology
 - c. Pathophysiology
 - d. Diagnostic interventions
 - e. Preoperative testing
 - f. Special considerations
 - g. Anesthesia selection and administration
 - h. Surgical positioning
 - i. Surgical skin preparation
 - j. Surgical draping
 - k. Surgical timeout
 - l. Surgical incision options
 - m. Routine surgical supplies
 - n. Specialty surgical supplies
 - o. Suture
 - p. Medication
 - q. Surgical instrument inventory
 - r. Surgical equipment
 - s. Surgery procedural steps
 - t. Surgical wound dressings
 - u. Specimen care
 - v. Postoperative destination and care considerations
 - w. Prognosis and complications
 - x. Wound classification and care
 - y. Related 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, New Jersey: 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, Nancymarie. *Berry and Kohn's Operating Room Technique*. 14th ed. St. Louis, MO: Mosby, 2021.

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

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, MO: Elsevier Mosby, 2012.

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

Rutherford, Colleen J. *Differentiating Surgical Instruments*. 3rd ed. Philadelphia, PA: F. A. Davis, 2020.

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

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