

Teaching subject: principles and techniques of mobile and scrub

Teaching duration: 34 theoretical hours, 34 theoretical hours

Prerequisite: None

Venue: College of Nursing and Midwifery

Target group: operating room

degree: bachelor

Number of units: 3 units

unit type: 2 theoretical units + 1 practical unit

Teacher group: Najme Qiami Kashtgar

Time: Tuesday 9:30-7:30

General purpose:

Getting to know the principles and techniques of mobile operation (before, during and after surgery) and scrubs during surgery

Specific goals: theory unit After the end of the course, the student should be able to:

Explain the role of the surgical technologist in the circular and scrub person. Explain the duties of the surgical technologist in the role of a mobile person before, during and after the operation. Describe the admission of the patient and the admission of special cases (children, infants, the elderly and physically disabled) in the operating room. Explain the method of transferring a patient undergoing surgery. Explain how to place the patient in surgical positions. Describe patient safety guidelines and instructions in the operating room. Explain how to prepare the skin of the surgical area and prep solutions. Describe the initial prep and the importance of doing it. Explain the preparation of the surgical table by the circular surgery technologist. Explain the principles of opening a sterile pack, adding equipment and sterile solution to the sterile environment. Explain the care of specimens in the operating room. Describe the objectives of sampling in the operating room. Explain the duties of a surgical technologist in the role of a scrub person. Explain how to control the patient's identity in the operating room. Explain hand washing (hand scrub methods for surgery) (Scrub) and its importance. Explain wearing a gown, wearing surgical gloves, and the considerations after wearing a gown and gloves.

Explain the preparation of the surgical table by the surgical technologist in the role of a scrub person. Explain the preparation of the Mayo Stand by the surgical technologist in the role of the scrub person. Name the types of drapes in surgery and explain them. Describe verbal and non-verbal communication during surgery. Explain how to give tools to the surgeon and help the surgeon (scalpel blade, scissors, forceps, retractors, gauze, etc.). Explain the general steps of surgery separately. Explain how to count gases and surgical instruments in different stages of operation Hemostasis and blood transfusion in the operating room and different methods of hemostasis in the operating room (chemical, mechanical, thermal methods) explain Describe the types of surgical incisions and their use. Describe the types of surgical sutures, types of surgical needles, types of sutures and wound closing methods. Explain the types of drains and the uses of each in surgical wounds. Explain the types of dressing and how to dress after the operation. Specific goals: practical unit After the end of the course, the student should be able to: Accept the patient in the operating room. Transfer the patient undergoing surgery. Transfer and position the patient undergoing surgery. Prepare the patient's skin before surgery. Implement surgical specimen protocol, containers, specimen labeling and specimen protection. Create and maintain a sterile environment in the operating room. Show the initial preparation of the operating room. How to open the operating room sterile equipment. Wash your hands before starting surgery.

Wearing gloves and gloves in an open manner. Wear gloves and gloves in a closed manner. Set up the surgical table. Counting gases and its steps, as well as how to count sharp and sharp objects. . To perform the principles of drape in all types of surgical incisions. Perform all types of stitches. Perform all types of dressings and care of drains.

Content and order of presentation:

(Titles and outlines of the content that must be taught in order to achieve the goals of the course. Includes: theoretical content, practical skills, etc.)

teaching method	presenters	Titles	date	meeting
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Getting to know the physical structure and equipment of the operating room	1403/7/24	1
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Getting to know the duties of a mobile person and a scrub	1403/7/24	2
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Covering the surgical technologist in the operating room	1403/8/1	3
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Patient admission and patient safety in the operating room	1403/8/1	4
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Surgical positions and patient transfer	1403/8/8	5
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Surgical scrub	1403/8/8	6
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Wearing gowns and gloves	1403/8/15	7

Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	skin prep	1403/8/15	8
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Surgical drape	1403/8/22	9
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Creating and maintaining a sterile environment and intraoperative techniques	1403/8/22	10
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Taking care of the sample and opening the sterile equipment before starting the procedure	1403/8/29	11
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Counting gases and surgical instruments	1403/8/29	12
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Identification of surgical sets and surgical table arrangement	1403/9/6	13
Flipped class, lecture, question and answer, group	Najme Ghiami keshtegar	Surgical incisions	1403/9/6	14

discussion, team-based learning				
Flipped class, lecture, question and answer, group discussion, team-based learning	Najme Ghiami keshtegar	Sutures and homeostasis methods	1403/9/13	15
Flipped class, lecture, question and answer, group discussion, team-based learning		Types of surgical dressings and drains	1403/9/13	16

teaching method	presenters	Titles	date	meeting
Playing the role of simulation	Najme Ghiami keshtegar	Getting to know the tools and equipment of the operating room	First semester 14030-1404	1
Playing the role of simulation	Najme Ghiami keshtegar	Surgical hand washing	First semester 14030-1404	2
Playing the role of simulation	Najme Ghiami keshtegar	exercise	First semester 14030-1404	3
Playing the role of simulation	Najme Ghiami keshtegar	Wearing gloves and gloves in a closed manner	First semester 14030-1404	4
Playing the role of simulation	Najme Ghiami keshtegar	Wearing gloves and gloves in an open way	First semester 14030-1404	5
Playing the role of simulation	Najme Ghiami keshtegar	exercise	First semester 14030-1404	6
Playing the role of simulation	Najme Ghiami keshtegar	Covering the gown and gloves to the surgeon and the scrub person	First semester 14030-1404	7
Playing the role of simulation	Najme Ghiami keshtegar	Prep and drape operation site in different organs	First semester 14030-1404	8

Playing the role of simulation	Najme Ghiami keshtegar	How to work with sialytic lamp and cautery device	First semester 14030-1404	9
Playing the role of simulation	Najme Ghiami keshtegar	The method of transferring the equipment to the surgeon and assisting the surgeon and counting	First semester 14030-1404	10
Playing the role of simulation	Najme Ghiami keshtegar	Types of suture methods and surgical incisions	First semester 14030-1404	11
Playing the role of simulation	Najme Ghiami keshtegar	Types of suture and dressing methods	First semester 14030-1404	12
Playing the role of simulation	Najme Ghiami keshtegar	Surgical knots and hemostasis methods	First semester 14030-1404	13
Playing the role of simulation	Najme Ghiami keshtegar	Opening the sterile set, adding equipment and solution to the sterile set Surgical drains	First semester 14030-1404	14
Playing the role of simulation	Najme Ghiami keshtegar	Identifying surgical sets and arranging the surgical table	First semester 14030-1404	15

		(general set and appendix)		
Playing the role of simulation		Identifying surgical sets and arranging the surgical table (women's set) How to work with suction and tourniquet	First semester 14030-1404	16

Duties and assignments of the student:

Studying sources and participating in class tests (quizzes) Presenting the results of an article in Ghalib Bibkart in the field of surgery for mobile and scrub duties Student attendance is mandatory in all meetings. Lateness after the start of the class is not allowed and that session is considered absent

Student evaluation method:

Asci test 6 points Active participation in class, active presence in class and participation in questions and answers, in-class tests (quizzes) 2 marks Midterm in the form of multiple choice questions, short answer 4 marks

The end of the semester in the form of multiple-choice, explanatory questions, 8 marks

Study sources:

- 1.FULLER, J. K. 2018. Surgical Technology, Principles and Practice.
- 2.ALEXANDER'S CARE OF THE PATIENT IN SURGERY, 15th 0EDITION, 2015.
Surgical Technology for the Surgical Technologist, A Positive Care Approach 4th Edition, 2014.
3. Berry & Kohn's Operating Room Technique, publisher Mosby,Thirteenth Edition ,2017