

UT SOUTHWESTERN DEPARTMENT OF SURGERY

TECHNICAL SKILLS COURSE OUTLINE

Course Title: R1 Laparoscopic Module I: Basic Laparoscopic Skills and Intro to Laparoscopic Cholecystectomy Course

Course Director: Name: Daniel J. Scott, MD, FACS
Specialty: Surgery

Additional Course Faculty: Name: Seifu Tesfay, RN, MS
Specialty: Senior Education Coordinator

Name: Lisa Hollett RN, MA
Specialty: Education Coordinator

Name: Debbie Hogg, BS
Specialty: Clinical Study Coordinator

Name: Nancy Gardner RN
Specialty: Research Nurse

Participants: Specialty: Surgery Residents
Level: R1
Number of participants for the entire course: 39

Curriculum duration: Two months

Expected Attendance:

of Wednesday Morning Sessions Assigned to Each Trainee: 1

Duration of Each Session (max 2 hrs): 2 hrs

of Trainees per session: 39

of Other Assigned Sessions: None

Duration of Each Session: hrs

of Trainees per session:

When will these other sessions be held?

Course Completion Verification - How do you know when a trainee has completed each component of the course and the overall course itself? Please specify for each course component, if applicable – *for example, assigned reading component verified by written testing and skills component verified by attending 2 course-instructor led sessions.*

X Attendance-based - based on the trainee attending all designated sessions
_____ Entire Course - Is the entire course solely based on attendance?
X Part of the Course - Is attendance to designated sessions required in addition to other components, as listed below?

_____ Repetition-based - based on the trainee performing a specified number of repetitions
Component(s): _____
of Repetitions: _____

X Proficiency-based - based on the trainee reaching a specified level of proficiency
Component(s): Skills Training
Method for determining proficiency: Proficiency levels reached on Southwestern Videotrainer Stations, as verified by a proctor according to score sheets. Timeline: curriculum completed within two months. Date to be determined. OR Privelege-linked: Trainees cannot serve as assistant surgeon (holding laparoscopic instruments except for camera) on a Lap Chole until all modules are completed.

X Written Testing - based on passing a written test
Component(s): Lap Chole Cognitive pre and post-test with 75% minimum score on post-test

X Documentation of Watching Videos/CD's/Web-based Materials - based on proctor or instructor verification that the trainee has watched the specified videos/CD's/Web-based materials
Component(s): FLS Cognitive Disc #1

_____ Other Methods (specify method) _____
Component(s): _____

Self-study or Self-practice (Is self-study or self-practice an expectation of this course?)

_____ No

X Yes (specify)

Self-study component(s): _____
Estimated time requirements for self-study: 5 hrs.
During what phase(s) of the course is self-study to be completed? _____
Training Phase

Self-practice component(s): Skills Training
Estimated time requirements for self-practice: 5-21 hrs.
During what phase(s) of the course is self-practice to be completed? _____
Training Phase

Training Location(s): Skills Lab

Equipment/Simulator(s):

1. 5 Southwestern Stations on the Storz Videotrainer (VT)

Other Resources (Textbooks, CD-ROMS, Videos, etc):

1. SAGES FLS Disc 1

Educational Scope:

X Skills – does this course teach technical skills?
Component(s): Basic Laparoscopic Skills

X Cognitive - does this course teach cognitive (knowledge) material?
Component(s): Laparoscopic Cholecystectomy, Fundamentals of Laparoscopic Surgery

X Judgment – does this course teach trainees judgment (intraoperative or clinical decision-making)?
Component(s): Laparoscopic Cholecystectomy

Learning Objectives:

Acquire proficiency in basic laparoscopic skills. Acquire knowledge concerning laparoscopic cholecystectomy, including indications for surgery, relevant anatomy, complications, operative strategy, and perioperative care.

Summary of Curriculum, Teaching Methods, and Resource Utilization (*For each component, please specify what material will be taught during each session, how will the material be taught, and what teaching materials will be used. Please also specify the overall format of the course including expectations required for successful course completion*):

Each trainee will be required to have successfully completed the Open Basic Skills module prior to starting on this module.

All trainees will attend a single Wednesday morning session. During this session, an introduction to the skills tasks and the curriculum will be afforded and an orientation to the video materials, the simulators, and the scoring system will be provided. Trainees will view a video reviewing the Southwestern Stations on the Storz Videotrainers and complete a cognitive pre-test.

SKILLS TRAINING

After orientation, trainees will be expected to self-practice on the tasks, with data on performance recorded for each repetition, until proficiency levels are reached for all tasks for the module. Trainees must log in and log out of the attendance system to track total training time. Training will be conducted in a self-study fashion and trainees will be encouraged to repetitively watch the video tutorials during training to review appropriate techniques and tricks for performing the tasks. Proctors will be available to assist in training and to provide additional feedback as needed.

Once a trainee has achieved proficiency on all tasks within the module, the trainee will notify the education coordinator, who will verify achievement of proficiency for the module. The trainee will then schedule a 30 minute post-test session with the proctor and will perform one repetition of each task while being graded according to proficiency levels by the proctor. A second FLS pre-test of one repetition of each FLS task will also be completed at that time to serve as baseline prior to the initiation of Lap II.

COGNITIVE TRAINING

Trainees will be expected to view all modules on SAGES FLS Disc 1. Trainees will take a written post-test once all modules have been completed.

Methods for giving feedback to learners (Formative and Summative):

Training will be conducted in a self-study fashion and trainees will be encouraged to repetitively watch the video tutorials during training to review appropriate techniques and tricks for performing the tasks. Proctors will be available to assist in training and to provide additional feedback as needed. Trainees will also be given a report of their post-test scores and improvement for the cognitive component.

Methods for Assessment of Learners:

VT metrics for skills training. Written pre and post-testing for cognitive components with a minimum score of 75% on post-testing.

Methods for Remediation: (How are individuals who need remediation identified and how is remediation facilitated?)

Anyone who cannot achieve proficiency on any of the tasks will be remediated by proctored training sessions. Anyone who does not achieve a 75% score or greater on the cognitive post-test will be remediated by proctored mentoring and instruction and re-take the test until a passing score is achieved.

Methods for Course Evaluation:

By Learners: E-Value online system
Other Methods (*specify*) _____

By Faculty: E-Value online system
Other Methods (*specify*) _____

Materials: Specify the types of materials, manufacturer (if pertinent), and total quantity needed.

1. 5 Southwestern Stations on the Storz Videotrainer (VT)

New letters for Checkerboard Drill

Red Foam for Endostitch Drill – 50 pieces

2-0 Polysorb Endostitch – 50 reloads

Endostitch Handles/Instruments – 15

Endodissect, 2 per station x 4 stations = 8, + 1 replacement = 16

Endoshears, 2 per stations x 1 station = 2, + 1 replacement = 4

Endograsp, 1 per stations x 1 stations = 1, + 1 replacement = 2