

UT Southwestern Department of Surgery

Technical Skills Course Outline

Course Title: Laparoscopic Inguinal Hernia Repair

Course Director: Homero Rivas, M.D.
General Surgery

Additional Course Faculty: Name: Daniel Scott, M.D.
Specialty: General Surgery

Participants: Specialty – general surgery categorical residents
Level – PGY-4
Number – 10

Schedule: 10 AM-12 PM

Training Duration: Time: 2 hours
Duration of session: 2 hour
Number of trainees per session: 5
Attendance-based: yes
Repetition-based: yes
Proficiency-based: n/a

Location: SCMIS Center, E6.202

Equipment/Simulators: Hernia rubber model, peritoneal dissection model, rubber mesh placement model, both video trainers, additional laparoscopic instruments, tackers, mesh and dissection balloons

Other Resources (Textbooks, CD-ROMS, Videos, etc): Interactive CD-ROM or laparoscopic inguinal hernia repair, BCR training video

Educational Scope: Skills – peritoneal dissection for inguinal hernia repair, laparoscopic port insertion, placement of polypropylene mesh with tacking

Cognitive – teaching access and dissection of the pre-peritoneal space, safe port insertion, safe dissection of peritoneum and spermatic cord, identification of important structures in the retroperitoneum, insertion of polypropylene mesh, fixing polypropylene mesh utilizing tacking device, cognitive teaching set up and preparation of patient for laparoscopic inguinal hernia surgery, standing anatomy, pre-peritoneal space as it applies to repair of inguinal hernias

Judgment – identifying appropriate patients for laparoscopic inguinal hernia repair vs. open inguinal hernia repair, understanding appropriate indications for conversion to open inguinal hernia repair

Learning Objectives:

1. Understanding a selection of appropriate patient candidate for laparoscopic inguinal hernia repair.
2. Understanding insertion of access for dissection of pre-peritoneal space.
3. Safe insertion of laparoscopic instruments.
4. Safe dissection of peritoneum and the pre-peritoneal space for mesh application.
5. Safe insertion of mesh into the pre-peritoneal space.
6. Appropriate positioning and fixation of mesh to myopectineal floor.

Summary of Curriculum, Teaching Methods, and Resource Utilization:

1. Faculty introduction of VCR video training session.
2. Introduction of CD-ROM for laparoscopic inguinal hernia repair.
3. Faculty demonstration of pre-peritoneal dissection model on video trainer.
4. Faculty demonstration of insertion of polypropylene mesh and fixation utilizing rubber model and video trainer.
5. Skill session. Two resident teams assisting during pre-peritoneal dissection on video trainer model.
6. Two residents assisting for insertion of polypropylene mesh and fixation.
7. Visual evaluation of appropriate placement of mesh on rubber model.

Methods for giving feedback to learners (Formative and Summative): Immediate faculty feedback by observation, faculty comments on individual performance.

Methods for Assessment of Learners: Direct observation by faculty of peritoneal dissection and mesh placement.

Methods for Course Evaluation: By Learners – general comments by learners to faculty
By Faculty – direct comments by faculty to learners