



L4

EMIGS task No. 4 Intra-corporeal knot tying

Required instruments:

- 2 laparoscopic needle drivers or Maryland graspers
- Laparoscopic scissors

Maximum time limit: 10 minutes (600 seconds).

Reference Video – COMING SOON

Pre-Task Instructions

Secure a short penrose drain to the suture block at a 45-degree angle. Place the suture block into the LaparoBowl attaching it securely via its Velcro backing to the floor of the LaparoBowl. Place the assembled LaparoBowl into the lap trainer so that the near edge of the suture block is positioned at the bottom of the field of view on the monitor. Ensure that the entire suture block and penrose drain are visible on the monitor. See Figure 4 for positioning.

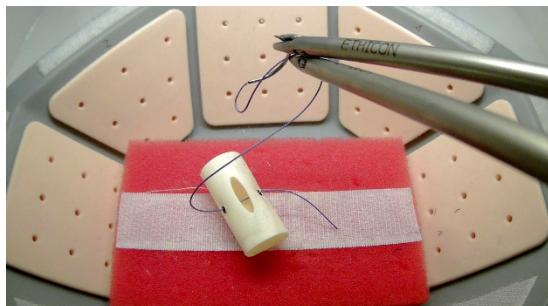


Figure 4. LaparoBowl at the beginning of the Laparoscopic Intra-corporeal Knot Task

Instructions

You will be required to pick a side of the lap trainer to stand on. You must remain on this side of the trainer for the duration of this task. You may utilize any of the ports on the trainer.

You will be asked by the proctor to set the penrose on the Velcro inside the LaparoBowl at a 45° angle, either toward you or away from you.

Your Test Kit will include 3 sutures on curved needles. You are required to cut one of the sutures to 15 centimeters in length for this task.

You are required to introduce the suture into the lap trainer by holding the suture, not the needle. You will use the instruments to pass the needle through the penrose drain as closely as possible to each of the marks.

You will use this suture to close the opening in the penrose drain, utilizing the intra-corporeal knot tying technique. Your first throw is required to be a double throw (surgeon's knot), followed by two individual single throws in alternating directions.

Once you have completed all your knots, you will bring your laparoscopic scissors in and cut the needle off of your completed knot.

Timing will begin when an instrument is visible on the monitor and ends when the needle end of the suture has been cut from the completed knot inside of the trainer, or the maximum time limit is reached, whichever comes first.

Errors will include any deviations from the marks on the penrose drain, tearing through the penrose drain, incomplete closure of the slit in the penrose drain, knots that have gaps in them, also known as air knots, failure to tie a square knot, and failure to perform a double throw (surgeon's knot) on the first throw.

If the short penrose drain is avulsed from the suture block, continue trying to suture. The clock will continue to run.

Post-Task Instructions

The proctor will save the video of the session. It will be graded at a later time.

In full view of the external video camera and proctor, remove the penrose drain from the LaparoBowl. Place the drain in the envelope provided.