



## EMIGS TASK #4 – INTRACORPOREAL KNOT TYING (TEXT 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. Failure to do so will cancel your score from this task. 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.

Using the ruler on your laparoscopic trainer or any available ruler, you will be 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 intracorporeal 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 of 600 seconds has been reached, whichever comes first.

Errors will include any deviations from the marks on the Penrose drain, incomplete closure of the slit in the Penrose drain, knots that have gaps in them, also known as air knots, inability to place a square knot, a surgeon's knot, or incomplete apposition of the Penrose drain slit.

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 internal camera, remove the Penrose drain and place it into the tamper-proof envelope to the AAGL for grading.