

ESSENTIALS IN MINIMALLY INVASIVE GYNECOLOGIC SURGERY (EMIGS)

**Developed by:
AAGL**

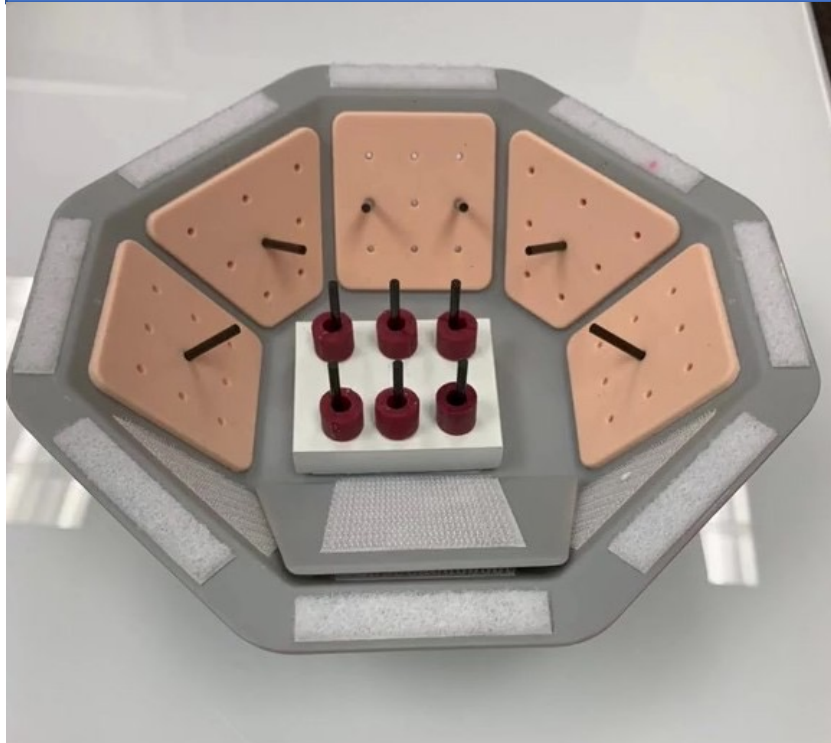
Video production and presentation by AAGL



EMIGS LAPAROSCOPIC TASK 1: PEG TRANSFER



EMIGS L1: PEG TRANSFER



Instruments

- Maryland Graspers (2)

Setup

- Pick a side of the lap trainer to stand on
- You must remain on this side for the duration of the task

EMIGS L1: PEG TRANSFER

Task

- Pick up sleeve from the peg board, transfer mid-air to other hand, and place on peg on the side wall of the LaparoBowl; there is no predetermined order for the sleeve transfers
- Repeat until all 6 sleeves have been transferred to the side wall pegs
- Reverse the process, transferring from side wall peg to peg board, again transfer mid-air to other hand

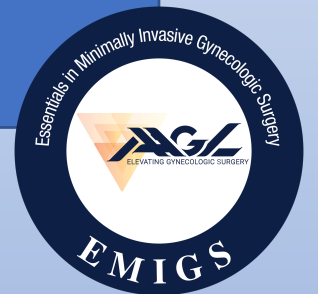
Time

- 330 seconds maximum (5 minutes 30 seconds)
- Time begins when and instrument appears on the screen

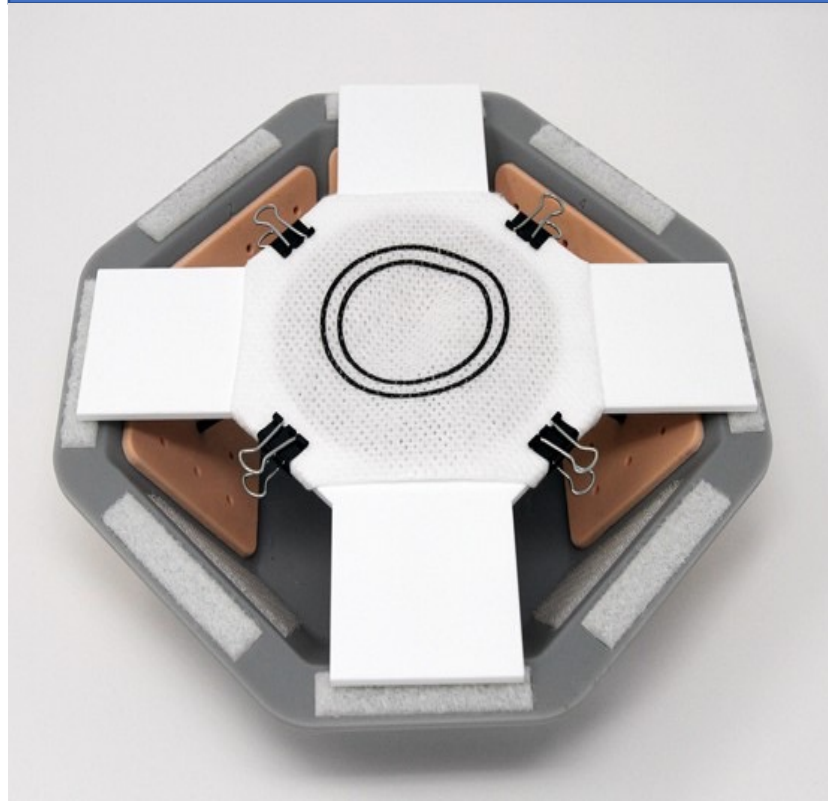
Errors

- Dropped sleeves
- Incorrect or missed mid-air transfer

EMIGS LAPAROSCOPIC TASK 2: PATTERN/CIRCLE CUT



EMIGS L2: PATTERN/CIRCLE CUT



Instruments

- Maryland grasper (1)
- Laparoscopic scissors (1)

Setup

- Pick a side of the LaparoBowl to stand on
- You must remain on this side for the duration of the task
- You may switch hands with your instruments during the task if needed

EMIGS L2: PATTERN/CIRCLE CUT

Task

- Using the Maryland grasper for traction, accurately cut out the inner circle of the top layer of the 2-ply gauze with the laparoscopic scissors

Time

- 300 seconds maximum (5 minutes)
- Time begins when an instrument appears on the screen

Errors

- Cuts deviating from the 4mm channel between the 2 lines
- Cuts into the bottom layer of the gauze
- If the gauze or the platform is avulsed, you are allowed to continue to perform the task, but you are not allowed to re-attach the gauze or the platform

EMIGS LAPAROSCOPIC TASK 3: EXTRACORPOREAL KNOT TYING



EMIGS L3: EXTRACORPOREAL KNOT TYING



Instruments

- Needle driver (1-2)
- Maryland grasper (0-1)
- Knot pusher (open or closed)
- Laparoscopic scissors (1)
- Hemostat (1-2)
- Suture scissors (1)

Setup

- Pick a side of the lap trainer to stand on
- You must remain on this side for the duration of the task
- Penrose drain is set at a 45° angle either toward or away from you

EMIGS L3: EXTRACORPOREAL KNOT TYING

Task

- Suture closure of penrose drain slit using the extracorporeal knot tying method
- Tie 3 single throws, transferring each throw into the trainer using the knot pusher

Time

- 600 seconds maximum (10 minutes)
- Timing starts when an instrument is visible on the monitor and ends when both ends of the suture are cut inside the trainer

Errors

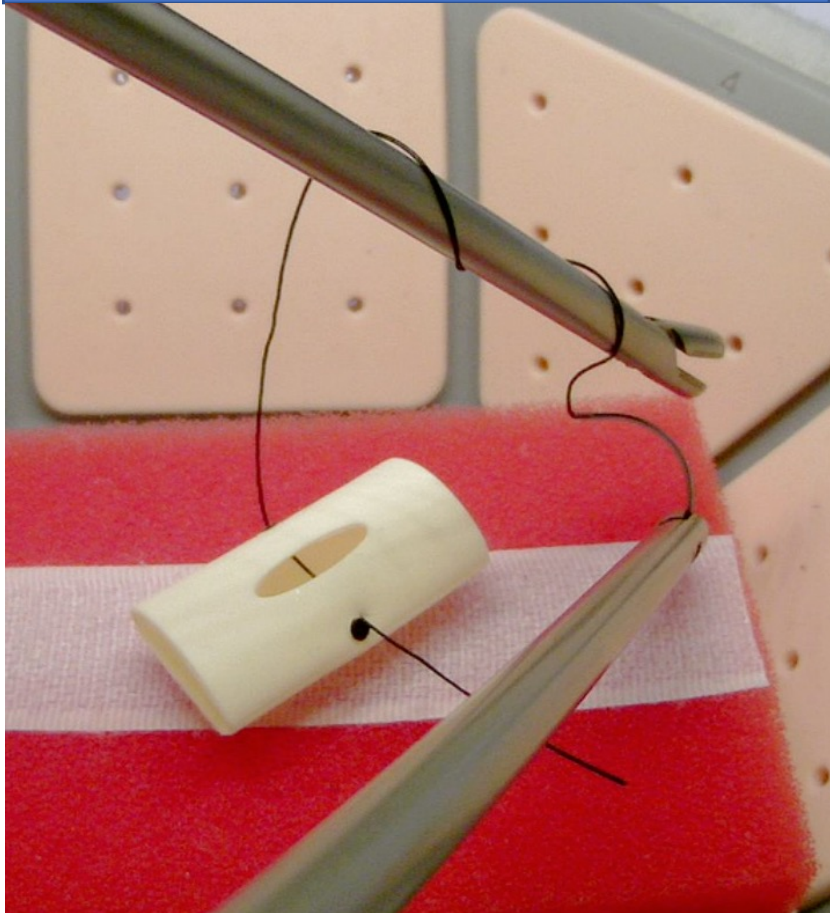
- Deviations from marks on penrose drain
- Lack of a square knot
- Incomplete apposition of the penrose drain slit



EMIGS LAPAROSCOPIC TASK 4: INTRACORPOREAL KNOT TYING



EMIGS L4: INTRACORPOREAL KNOT TYING



Instruments

- Needle driver (1-2)
- Maryland grasper (0-1)
- Laparoscopic scissors (1)

Setup

- Pick a side of the lap trainer to stand on
- You must remain on this side for the duration of the task
- You must set the penrose drain at a 45° angle, in-line with your laparoscopic needle holder

EMIGS L4: INTRACORPOREAL KNOT TYING

Task

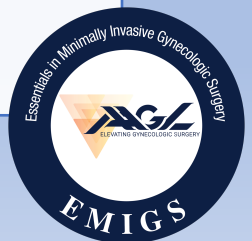
- Suture closure of penrose drain slit using the intracorporeal knot tying method
- First throw is a **double throw**, followed by two single throws

Time

- 600 seconds maximum (10 minutes)
- Timing starts when an instrument is visible on the monitor and ends when the needle end of the suture is cut inside the trainer

Errors

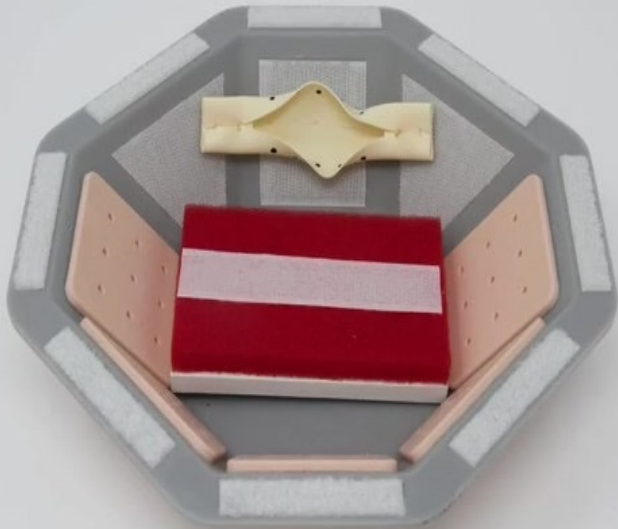
- Deviations from marks on penrose drain
- Inability to place a square knot, a surgeon's knot, or incomplete apposition of the penrose drain slit



EMIGS LAPAROSCOPIC TASK 5: RUNNING STITCH



EMIGS L5: RUNNING STITCH



Instruments

- Needle driver (1-2)
- Maryland grasper (0-1)
- Laparoscopic scissors (1)

Setup

- Pick a side of the trainer to stand on
- You must remain on this side for the duration of the task
- To start this task, place the long penrose drain on the Velcro on panel number 3 on the opposite side of the LaparoBowl

EMIGS L5: RUNNING STITCH

Task

- Suture closure of long penrose drain slit using a running (not locking) suture
- Suture may be run either right to left or left to right, and either anterior to posterior or posterior to anterior

Time

- 600 seconds maximum (10 minutes)
- Timing starts when an instrument or suture is visible on the monitor and ends when the needle end of the suture is cut inside the trainer

Errors

- Deviations from marks on the penrose drain
- Tearing through the penrose drain
- Pulling the anchor knot through the penrose drain
- Slack loops of suture between the marks

ANCHOR KNOT - SAMPLE VIDEO

NOTE:

During the test, the time needed to prepare the suture and create an anchor knot will not count towards grading or overall time allotted to complete the Running Stitch task.

