

Drill 3-Laparoscopic Suturing

Drill Requirements:

Abdomen Model 3

Instruments:

Needle holder x 2

Parrot scissors

Other Equipment:

Video monitor

Camera

Telescope 4mm, 30 degree

4-0 braided suture (on tapered, swedged needle, cut to 10-12cm length)

Task A: Laparoscopic Suturing

Objective: Place 4 interrupted sutures, each secured with 4 knots (throws) (intracorporeal tying)

Performance Scoring:

Time to complete task

Errors

Misplaced suture (target mark missed)

Poor tissue approximation/"air knot"

Instruments removed/withdrawn from the trainer

Trainer Set-up:

Fabric is secured between the clips and marks are made on each side that correspond with the suggested locations of the sutures.

General Principles:

Time starts when the participant inserts the instruments and picks up and positions the needle. Once the participant states they are ready to start, time is measured. This is for placement of the suture through two corresponding marks on the fabric and the performance of 4 throws of a square knot.

If the participant uses a surgeon's knot and performed 2 throws for the first part of the knot that counts as one throw. Participant will need to complete three additional throws after this.

Errors are recorded if there is an air knot, if the suture does not hit the mark on each side (if missed both marks, that is recorded as two errors) or instruments are inadvertently pulled from the box trainer (tip of instrument out of box—one error for each instrument removed i.e. both instruments pulled out = 2 errors). Four sutures are placed and times for each independent suture recorded and times averaged.

Neonatal MIS Trainer Project Participant Score Sheet

Session Date: _____ REDCAP Record ID: _____ - _____

Session Type (select one):

Evaluation Session (TS-E)				
<input type="checkbox"/> Baseline	<input type="checkbox"/> 6-month	<input type="checkbox"/> 12-month	<input type="checkbox"/> 18-month	<input type="checkbox"/> 24-month
<input type="checkbox"/> Mandatory Practice Session (TS-P)		<input type="checkbox"/> Optional Practice Session (TS-O)		

Drill 3-Laparoscopic Suturing

Task A: Laparoscopic Suturing

Time to place interrupted sutures

Suture #1	Minutes	Seconds
Suture #2	Minutes	Seconds
Suture #3	Minutes	Seconds
Suture #4	Minutes	Seconds

Errors*

Air-knot/poor approximation	Count: _____
Misplaced suture (missed marks)	Count: _____
Instrument(s) pulled out of trainer	Count: _____

*Record each error and indicate **total** number of each error type