

TASK 1 – GRASPING & MANIPULATION

Time to complete: **4 minutes**. EQUIPMENT: Flexible pad, 3 posts, 3 polo mints, 15cms string, 2 Johannes forceps/similar.

INSTRUCTIONS:

	Polo 1	Polo 2	Polo 3
Floor to post 1 – non-dominant hand only			
Post 1 to 2 – dominant hand only, rotation of mint in mid-air			
Post 2 to 3 – transfer from one hand to other in mid-air			
Post 3 to floor – pass along string without touching the floor			
GOALS score* ≥ 15			
<p>Notes:</p> <ul style="list-style-type: none"> • If the polos drop, that individual polo needs to be replaced on the previous post, then done again. There is no need to restart the whole task. • Johannes forceps are suitable, but instrument should be at the discretion of candidate / assessor and is dependent on instrument availability • It is up to the candidate whether they would like to do one polo at a time across the 3 posts; or all 3 polos and one post at a time. • It is essential that there is a demonstration of 'safe tissue handling' as if the equipment is a patient; if this is not demonstrated, it would warrant a failure of the task. • *see appendix 			

TASK 2 – TYING EXTRACORPOREAL ROEDER KNOTS AND PLACING THEM TO SIMULATE APPENDICECTOMY

Time to complete: **8 minutes**.

EQUIPMENT: Partially inflated glove / Inovus simulated appendix tube, with 4 lines at 1cm intervals along one digit, long length of suture material, 2 Johannes forceps or knot pusher, laparoscopic scissors.

INSTRUCTIONS:

	Roeder 1	Roeder 2	Roeder 3
Create Roeder knot	1 st knot can be done before the time starts.		
Place Roeder 1 proximally (zone 1)			
Place Roeder 2 proximally (zone 1)			
Place Roeder 3 proximally (zone 3)			
Divide the “appendix” with scissors in zone 2			
GOALS score* >/=15			
Demonstration of safe use of sharps			
<p>Notes:</p> <ul style="list-style-type: none"> • Candidate MUST demonstrate safe use of scissors including keeping them in view all the time and not knocking other structures in the box trainer – unsafe use of scissors would warrant a failure for the task • The glove and tip must not deflate on division of the ‘appendix’ – deflating would warrant a failure for the task. • The single Roeder knot made before the timer starts must stay outside the box trainer until the task has begun. • It is essential that there is a demonstration of ‘safe tissue handling’ as if the equipment is a patient; if this is not demonstrated, it would warrant a failure of the task. • *see appendix 			

TASK 3 – CUTTING AN ACCURATE DISC

Time to complete: **3 minutes**.

EQUIPMENT: Inovus skin, Glove or chamois leather, laparoscopic scissors, graspers. Solid circular line (diameter must be at least 5cms) on glove or chamois leather, with inner and external parallel dotted lines 0.5cms away. Breaching dotted line disqualifies.

INSTRUCTIONS:

Cut the round disc from the pad	
No breach of internal dotted line	
No breach of external dotted line	
No damage to sponge/ tissue beneath	
Demonstration of safe use of sharps/ scissors	
GOALS score* ≥ 15	
Notes:	
<ul style="list-style-type: none">• Failure to demonstrate any of the individual points above warrants a failure of the task.• Candidate MUST demonstrate safe use of scissors including keeping them in view all the time and not knocking other structures in the box trainer – unsafe use of scissors would warrant a failure for the task.• It is essential that there is a demonstration of ‘safe tissue handling’ as if the equipment is a patient; if this is not demonstrated, it would warrant a failure of the task.• *see appendix	

TASK 4 – SUTURING / CREATE 2 SECURE, RECOGNISED SURGICAL KNOTS UNDER SLIGHT TENSION

Time to complete: **6 minutes**.

EQUIPMENT: Flexible pad with 2 dots drawn 1cm apart / Inovus suture pad, braided suture, one needle driver, one pair Johannes forceps, laparoscopic scissors.

INSTRUCTIONS:

Place suture 1 within the dotted lines / circle on insertion and exit (can be horizontal or vertical)	
Tie suture 1 with 3 throws, securely and under tension	
Cut both ends of the suture to leave a neat knot and remove the needle	
Place suture 2 within the dotted lines / circle on insertion and exit (can be horizontal or vertical)	
Tie suture 2 with 3 throws, securely and under tension	
Cut both ends of the suture to leave a neat knot and remove the needle	
GOALS score* ≥ 15	
Demonstration of safe use of sharps	
<p>Notes:</p> <ul style="list-style-type: none"> • It is the candidates' decision as to whether they use the same needle for both or a fresh needle/ suture. • Acceptable knot types: Szabo, single-handed reef knot, surgeon's knot (intracorporeal). • Demonstrations of safe use of sharps (needle and scissors) is essential, failure to do so will warrant a failure of the task. This would include but not be limited to keeping scissors/ needle in view all the time and not knocking scissors or suture into other structures in the box trainer. • It is essential that there is a demonstration of 'safe tissue handling' as if the equipment is a patient; if this is not demonstrated, it would warrant a failure of the task. • *see appendix 	

Global rating scale component of the intraoperative assessment tool*

- M.C.
- Depth perception
1. Constantly overshoots target, wide swings, slow to correct
 - 2.
 3. Some overshooting or missing of target, but quick to correct
 - 4.
 5. Accurately directs instruments in the correct plane to target
- Bimanual dexterity
1. Uses only one hand, ignores nondominant hand, poor coordination between hands
 - 2.
 3. Uses both hands, but does not optimize interaction between hands
 - 4.
 5. Expertly uses both hands in a complimentary manner to provide optimal exposure
- Efficiency
1. Uncertain, inefficient efforts; many tentative movements; constantly changing focus or persisting without progress
 - 2.
 3. Slow, but planned movements are reasonably organized
 - 4.
 5. Confident, efficient and safe conduct, maintains focus on task until it is better performed by way of an alternative approach
- Tissue handling
1. Rough movements, tears tissue, injures adjacent structures, poor grasper control, grasper frequently slips
 - 2.
 3. Handles tissues reasonably well, minor trauma to adjacent tissue (ie, occasional unnecessary bleeding or slipping of the grasper)
 - 4.
 5. Handles tissues well, applies appropriate traction, negligible injury to adjacent structures
- Autonomy
1. Unable to complete entire task, even with verbal guidance
 - 2.
 3. Able to complete task safely with moderate guidance
 - 4.
 5. Able to complete task independently without prompting
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* The descriptors shown are the “anchor” descriptors for scores 1, 3, and 5.