

SITM: Robotic Assisted Gynaecological Surgery (RAGS)

SECTION 1: CAPABILITIES IN PRACTICE (CIP)

This SITM must be undertaken with the Gynaecological Surgical Care SITM.



RAGS CiP 1: The doctor can be an effective assistant within the multidisciplinary robotic surgical team.

Key skills	Descriptors				
Is familiar with robotic components, instruments, mechanics, ergonomics and fundamental techniques in RAGS invovled	 Understands how to set up the operating room for RAGS. Can correctly position the patient for robotic surgery. Undertakes vaginal preparation for a robotic procedure. Aware of principles of the robotic system and the fundamentals of the component of instruments used by the technology. Is able to drape the robot. Is able to respond to system errors. Able to drive the robot. Can maintain a clear image by cleaning/changing the camera. Is able to insert, change and remove robotic instruments. Is able to place the port to perform the robotic procedure. Understands different docking positions and able to dock the robot in different positions. Can troubleshoot and re-dock the robotic system. Can use suction and maintain a clear operative field to carry out surgery. Is able to introduce and present a loaded needle. Understands and can use different methods to maintain pneumoperitoneum. Can safely retrieve needle, swabs and specimen. 				
Safely uses energy sources as part of robotic surgery	 Uses correct energy type and setting for each procedure. Takes steps to prevent diathermy related complications. Is aware of mechanism of how to use different energy sources when performing RAGS. 				
Works effectively as part of the multidisciplinary team (MDT)	 Appreciates the impact of human factors on how the team functions and the safety of the surgery. Provides leadership within the MDT when carrying out robotic surgery. Communicates clearly with the theatre and anaesthetic team. Understands specimen handling and histology and cytology requests. Communicates with recovery and ward staff to determine the post-operative treatment plan. Instructs nursing staff on postoperative care and pain management. Makes sure someone's thromboprophylaxis type, dose and duration is communicated to postoperative teams and the 				



patient.	
Evidence to inform decision	
 Reflective practice TO2 Direct observation by senior colleagues Attendance at local, deanery and national teaching Completed online training module for robotic system Attendance at local, regional or national robotic courses 	 Confirmed participation in MDT meetings and clinics Leads critical incident review OSATS: docking/undocking CbD Mini-CEX TO2 (including SO)
Knowledge criteria	
they are used inappropriately	robotic surgery and the potential complications if ng with the scrub team about needle/swab count
 Understands indications for robotic surgery in o informed consent o effects of pneumoperitoneum 	
 Is able to understand why the robot arm class Understands the appropriate use of an assist Understands neurological conditions that could 	

- Understands neurological conditions that could be due to the patient being poorly positioned during a prolonged procedure
- Objective methods for assessing port placement and pneumoperitoneum

RAGS CiP 2: The doctor uses robotic assistance to provide high-quality surgery for pelvic pathology .					
Key skills	Descriptors				
Demonstrates safe surgical practice	 Selects people appropriately for robotic surgery with emphasis on complex patients, high body mass index and those with deep pelvic pathology, where robotic assistance will enhance someone's surgery and recovery. Can overcome lack of haptic feedback with robotic surgery. Can carry out microdissection and atraumatic tissue handling with the robotic system. Maintains the safety of the operative field where the surgery is performed. Can perform ovarian or uterine artery ligation. 				



 Can independent Has appropriate s surgery. 	tly perform laparoscopic/robotic adhesiolysis. tly perform a robotic hysterectomy. suture handling and knot tying skills for robotic
 Evidence to inform decision Reflective practice NOTSS Attendance at risk management meetings Attendance at skills drill events Completion of online system training Completion of 30 hours of simulation console training Attendance at robotic course(s) 	 OSATS: docking and undocking hysterectomy NOTSS CbD Feedback from trainer TO2 Mini-CEX
 Knowledge criteria The necessary robotic equipment and how to set Potential surgical complications How to manage major haemorrhage The indications and complications of robotic procostic port placement surgical anatomy of pelvis Alternative treatment options for patients with precessary, complications of other treatment options for patients with precessary, complications of the robotic sys Understands the fundamentals of the robotic sys Understands how energy sources are used in robused inappropriately Understands the importance of communicating wreedle/swab count. Can prevent excessive blood loss during the surgionable to undertake robotic assisted suturing Surgical management of complications and making Can involve another specialist and ask for help, and Is able to change to laparoscopy or laparotomy, and Demonstrate understanding of specimen handling Effective communication with recovery and ward 	cedures: pelvic disorders, the indications that they are cions and getting informed consent citem components and instrumentation potic surgery and their potential complications if with the scrub team and checking the ical procedure Ing an appropriate referral s required. edure as appropriate ag and histology/cytology requests

RAGS CiP 3: The doctor can recognise assess and manage complications and emergencies in robotic theatre.

Key skills Descriptors



Recognises, minimises, and manages harm from complications of RAGS	 Recognises surgical complications, such as bowel, urinary and vascular injuries, and involves appropriate specialists, where needed. Recognises potential risks during surgery and makes appropriate decisions to prevent harm to the patient. Recognises the role of other specialists in managing surgical complications. Recognises the potential effect of prolonged pneumoperitoneum. Understands the indications for moving to laparoscopic or open surgery. Demonstrate situational awareness and monitors blood loss. Can assess and manage an unstable patient. Is able to perform an emergency undocking procedure. Recognises complications after surgery and can determine the need for care from the high dependency unit (HDU) Understands the importance of 'human factors' in the context of the robotic theatre environment. Manages any complication calmly and requests help early, as and
	 when needed, as part of working in a MDT. Puts patient in a safe ergonomic position in the theatre to keep them safe. Is able to communicate clearly with the scrub and anaesthetic teams, and assistants during an emergency. Safely removes instruments under their direct vision.
Evidence to inform decision	
 Evidence of setting up local programme Reflective practice Feedback from trainees and Attend theatre team briefin Organisation checklist Attend risk management model 	 CbD Mini-CEX d theatre staff Feedback from trainees TO2 Local and deanery teaching
• Aware of the impact of hur during surgery.	ortant to communicate with the scrub team and assistant. man factors on running a safe theatre list to reduce complications d to do with the robot system before removing instruments

• Understands how to overcome a system error in an emergency



- Understands that uninterrupted power supply to robot components is essential
- Teaching skills and giving clear instructions
- Understands the importance of giving precise instructions to assistant to perform arterial clip application to prevent bleeding
- Is able to give supportive, constructive feedback to trainees and assistants
- Has knowledge of how to perform an emergency undocking procedure and knows how to communicate with the team
- Can prevent excessive blood loss during a surgical procedure
- Effectively communicates with recovery and ward staff

SECTION 2: PROCEDURES

Procedures marked with * require three summative competent OSATS.

Procedures	Level by end of training	CIP 1	CIP 2	CIP 3
Docking and undocking of robot*	5	Х	Х	Х
Robotic assisted hysterectomy*	5	Х	Х	
Robotic assisted myomectomy	1	Х		
Robotic assisted excision of rectovaginal	1	Х		
endometriosis				
Robotic assisted hysterectomy for	1	Х		
gynaecological cancer with or without (+/-)				
lymph node dissection				
Robotic assisted procedure for pelvic floor	1	Х		
prolapse or incontinence				

SECTION 3: GMC GENERIC PROFESSIONAL CAPABILITIES (GPC)

Mapping to GPCs

Domain 1: Professional values and behaviours

Domain 2: Professional skills

- Practical skills
- Communication and interpersonal skills
- Dealing with complexity and uncertainty
- Clinical skills (history taking, diagnosis and management; consent; humane interventions; prescribing medicines safely; using medical devices safely; infection control and communicable diseases)

Domain 3: Professional knowledge

- Professional requirements
- National legislative requirements
- The health service and healthcare systems in the four countries



Domain 4: Capabilities in health promotion and illness prevention Domain 5: Capabilities in leadership and teamworking Domain 6: Capabilities in patient safety and quality improvement

- Patient safety
- Quality improvement

Domain 7: Capabilities in safeguarding vulnerable groups

SECTION 4: MAPPING OF ASSESSMENTS TO RAGS CiPs

RAGS CIP	Online Modules Possible Courses	OSATS	Mini-CEX	CbD	NOTSS	TO1/ TO2	Reflective practice
1: The doctor can be an effective assistant within the multidisciplinary robotic surgical team	Online Modules Simulator training certification	Simulator task based	Х	x	х	x	Х
2: The doctor uses robotic assistance to provide high- quality surgery for pelvic pathology	Log book Audit Project Dry lab/Wet lab robotic courses Training courses	Х	Х	х	х	x	Х
3: The doctor can recognise, assess and manage complications and emergencies in robotic theatre	Skills drill/robotic courses Human factors/ communication course	Х	Х		Х	Х	Х