BIARGS
British & Irish Association of Robotic Gynaecological Surgeons

BIARGS Gynae Robotic Surgeon Training Curriculum

LEVEL 1 Bottom end assistant

Entrusted to observe

LEVEL 2

Entrusted to act under direct supervision: (within sight of the supervisor).

ST 1- 7 OR Nurse / Allied Health professional = First assistant

LEVEL 3

Entrusted to act under indirect supervision: (supervisor immediately available on site if needed to provide direct supervision) Robotic ATSM

LEVEL 4 Robotic ATSM ST6-7

Entrusted to act independently with support

(supervisor not required to be immediately available on site, but there is provision for advice or to attend if required) Robtic ATSM ST6-7

LEVEL 5

Entrusted to act independently

Trainees / Advanced surgical practitioner should have assisted with a laparoscopic cases before assisting with robotic cases.

Date: **Name: (Trainee)** **Trainer:**

Robot system:	

Hospital

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Date: **Name: (Trainee)** **Trainer:**

Orientation & Preparation	Competence Level									
	Level 1		Level 2		Level 3		Level 4		Level 5	
	ST1/ST2		ST1 /ST2 /ST3		ST1/ST2/ST3/ST4		ST5/ST6 / ST7		ST6 / ST7	
	Second assistant (Bottom		First assistant		First assistant		ATSM		ATSM	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Orientation of robotic theatre										
Demonstrate effective team working										
Demonstrate effective communication skills within theatre team										
Demonstrate situational awareness										
Demonstrate importance of Human factor										
Sterile preparation of robot										
Bedside assistant										
Reflective practice										

Knowledge	Competence Level									
	Level 1		Level 2		Level 3		Level 4		Level 5	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Completion of the online theoretical training package										
Understands mechanics of the Robotic assisted surgery										
Awareness of the ergonomics of robotic assistance										
Familiar with robotic components and instrumentation										
Awareness of other modalities, benefits and potential complications with robotic surgery										
Trainee is able to adjust the surgical robot's settings										

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Awareness of the capital cost of the robotic system and life of robotic assisted instruments										
Knowledge of different docking positions and the indications										
Understanding of the use of electro diathermy in robotic surgery										
Understands reasons for arm clashing and methods of correction										
Knowledge of the potential complications of electro diathermy										
knowledge of principles of laparoscopy and robotic surgery										
Situational awareness										
Communication skills										
General knowledge /Surgical competence	Competence Level									
	Competence Level									
	Level 1		Level 2		Level 3		Level 4		Level 5	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Knowledge of abdominal and pelvic anatomy										
Aware principles of managing a critically ill surgical patient										
Online modules										
- Consoles										
- Docking										
- Instrument insertion										
- Instrument removal										
- Undocking										
Simulator training	Introduction		2 hours		30 hours					
Have completed robotic simulation training										
Satisfactory completion of wet lab training	Observation		Introduction		Advanced					

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Robotic Assistant competence	Level 1		Level 2		Level 3		Level 4		Level 5	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Knowledge of the operative room setup of the robotic system										
Aware of principles of the robotic system										
Be able to drape the Robot										
Be able to respond to system errors										
Able to drive the robot										
Knowledge of how to position patient for robotic surgery										
Undertake vaginal preparation for a robotic procedure										
Able to insert McCartney tube in vagina if required										
Able to insert uterine manipulator if required										
Be able to undertake vaginal preparation & insert a rectal probe if required										
Understand and demonstrate use of different methods of maintaining pneumoperitoneum										
Able to retrieve specimen vaginally										
Demonstrate understanding port placement										
Able to undertake port placement										
Be able to dock the robotic system										
Understand different docking positions and able to dock the robot										
Be able to maintain a clear image by cleaning/changing the camera										
Be able to insert, change and remove robotic instruments										
Be able to understand reason for clashing and adjust the arm positions										
Have understanding of the appropriate use of assistant port										
Demonstrates of use of suction and maintaining clear operative field										
Able to introduce and present loaded needle										
Able to cut the suture with laparoscopic scissors										
Safe retrieval of needle										
Demonstrate understanding of communication with scrub team and needle/swab count										
Demonstrate introduction and retrieval of surgical swabs from assistant port										
Demonstrate introduction and retrieval of retraction swab										

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Demonstrate introduction and retrieval of specimen bag										
Be able to perform clip application as directed by console surgeon										
Be able to perform laparoscopic adhesiolysis										
Undocking and port closure (level 5)										
Be able to close incisions and port sites closure										
Be able to perform an emergency undocking procedure										
Demonstrate understanding of specimen handling and histology/cytology requests										
Demonstrate skills of communication with recovery and ward staff										
Robot console simulation										
Online modules										
- Vessel sealer										
- Diathermy										
- Needle driver										
Robot console surgical skills	Level 1		Level 2		Level 3		Level 4		Level 5	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Demonstrate camera control and set up visual field										
Demonstrate multi-arm control of the robotic instruments										
Demonstrate hand-eye instrument coordination										
Demonstrate wrist articulation										
Demonstrate clutching of the robotic instruments										
Demonstrate atraumatic tissue handling										
Safe tissue cutting with the robotic system										
Maintain safety of operative field										
Demonstrate blunt dissection with the robotic system										
Demonstrate micro dissection with the robotic system										
Use of diathermy and colpotomy										
Demonstrate plan for surgical specimen retrieval methods										

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Demonstrate use of needle driving with the robotic system										
Demonstrate knot tying with the robotic system										
Demonstrate suture handling with the robotic system										
Demonstrate continuous and interrupted suturing with the robotic system										
Understand the potential risks and ability to make appro										
Be able to manage surgical complications (bowel/urinary										
Demonstrate effective communication with anaesthetic , theatre team and console surgeon										
Procedural tasks	Level 1		Level 2		Level 3		Level 4		Level 5	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Sealing and dividing round ligaments										
Identifying ureters and sealing and dividing ovarian vessels										
Incising vesicouterine peritoneum and developing vesicovaginal space										
Sealing and dividing uterine vessels										
Performing colpotomy										
Suturing vaginal cuff										
Robot assisted hysterectomy (level 5)										
Robot assisted BSO (level 5)										
Training Modules	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Basic local training										
Simulator training										
Online module										
Wet lab										
Competence based training (Level 1 to 5)										
Ist assistance sign off										
ST6/7/ATSM										
Assessments	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Audit of cases										

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GEARS										
OSATS										
DOPS										
Mini-CEX										
CBD										
NOTSS										
Reflective practice										
Annual update										

Name: Trainee:
Name: Trainer :
Institute:
Level of training:
Date:

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