CORE SURGICAL SKILLS

Module 5 : Core Surgical Skills

Learning outcomes:

■ To understand and demonstrate appropriate knowledge, skills and attitudes in relation to basic surgical skills.

Knowledge criteria	Clinical competency	Professional skills and attitudes	Training support	Evidence/assessment
 Legal issues around consent to surgical procedures, including consent of children, adults with incapacity and adults and children in emergency situations Name and mode of use of common surgical instruments and sutures Complications of surgery Regional anatomy and histology Commonly encountered infections, including an understanding of the principles of infection control Principles of nutrition, water, electrolyte and acid base balance and cell biology Appropriate use of blood and blood products General pathological principles 	 Interpret preoperative investigations Arrange preoperative management Recognise potential comorbidity Obtain valid consent Explain procedures to patient Advise patient on postoperative course Within agreed level of competency for the procedure you may: Choose appropriate operation Exhibit technical competence Make intraoperative decisions Manage intraoperative problems Communicate with colleagues and relatives 	 Recognise the need for and initiate collaboration with other disciplines, before, during and after surgery Demonstrate the ability to select the operative procedure with due regard to degree of urgency, likely pathology and anticipated prognosis Have an awareness of the need to meet national targets Develop the ability to work under pressure and recognise own limitations Show the need to appreciate and recognise that decision making is a collaborative process between doctor and patient 	 Basic practical skills in o & g course (RCOG approved) Basic surgical workshop Basic Gynaecological Endoscopic Surgery (GES) workshop Intermediate Gynaecological Endoscopic Surgery (GES) workshop Obtaining Valid Consent (RCOG, October 2004) RCOG Consent Advice series DH website Local courses StratOG.net:The Obstetrician and Gynaecologist as a Professional. Ethical and legal issues e-tutorial 	 Logbook Audit project MRCOG – parts I and 2 OSATS: opening and closing abdomen

Appendix to Curriculum Module 5: Details of Knowledge Criteria

- Legal issues around consent to surgical procedures, including consent of minors (and Fraser competency), adults with incapacity and adults and children in emergency situations.
- Name and mode of use of common surgical instruments.
- Knowledge of sutures and their appropriate use.
- Prevention and complications of surgery including:
 - venous thromboembolism
 - infection (wound, urinary tract, respiratory, intra-abdominal and pelvic)
 - primary and secondary haemorrhage (intraoperative and postoperative).
- Relevant clinical anatomy.
- Relevant bones, joints, muscles, blood vessels, lymphatics, nerve supply and histology.
- Characteristics, recognition, prevention, eradication and pathological effects of all commonly
 encountered bacteria, viruses, Rickettsia, fungi, protozoa, parasites and toxins, including an
 understanding of the principles of infection control.
- Principles of nutrition, water, electrolyte and acid base balance and cell biology.
- Knowledge and awareness of anaesthesia: general anaesthetic, conscious sedation, regional and local.
- General pathological principles, including general, tissue and cellular responses to trauma, infection, inflammation, therapeutic intervention (especially by the use of irradiation, cytotoxic drugs and hormones), disturbances in blood flow, loss of body fluids, hyperplasia and neoplasia.
- Knowledge and awareness of use in complications of diathermy and other energy sources

Module 5 : Core Surgical Skills

Fill in as a record of experience.

Skills	Compe	tence level	Basic training	Intermediate training	Advanced Not required	
	Observa	ation	Direct s	upervision	Indeper	ndent practice
	Date	Signature of trainer	Date	Signature of trainer	Date	Signature of trainer
Interpret preoperative investigations						
Arrange preoperative management						
Obtain informed consent						
Choose appropriate operation						
Open and close the abdomen						
Exhibit technical competence						
Make appropriate operative decisions						
Manage intraoperative problems						

Name of clinical train	er (please pi	rint)		S	ignature of o	clinical trainer									
OSATS		all formal assessment late of satisfactory as													
Opening and closing	Date		Date		Date		Date		Date						
the abdomen	Signature Signature Signature Signature Signature Signature														
	_						!								
	COMPLETION OF MODULE 5														
COMPLETION C															
				I confirm that all components of the module have been successfully completed:											
		ents of the modu	ile have	been successful	lly comple	etea:				Name of educational supervisor Signature of educational supervisor					
	compon		ile have	e been successful	ily comple		ational su	pervisor							

OPENING AND CLOSING THE ABDOMEN

		of complexity/	Clinical details of complexity/difficulty of case
	Post:		Assessor Name:
Date:	StR Year:		Trainee Name:

	Performed independently	Needs help
	PLEASE TICK RELEVANT BOX	VT ВОХ
Items under observation: opening		
Appropriate preoperative preparation: bladder empty, prepare and drape abdomen		
Appropriate skin incision (e.g. length, position) with safe use of surgical knife		
Subcutaneous fascia opened with attention to haemostasis		
Rectus sheath incised either side of linea alba, extended with scissors and dissected off rectus muscle with attention to haemostasis		
Safe entry of peritoneal cavity by either sharp or blunt dissection		
Item under observation: closing		
Identification of peritoneal edge and closure (optional) using appropriate suture material, instruments and technique		
Ensure haemostasis of peritoneum and posterior surface of rectus sheath		
Secure closure of rectus sheath using appropriate suture material, instruments and technique for knot tying and placement of sutures		
Ensure haemostasis before skin closure		
Accurate skin closure using appropriate method, instruments and technique (trainees should demonstrate competence in the full range of closure methods)		
Appropriate and safe use of needle holder: needle loaded correctly, no touch technique, no inappropriate movements		
Comments (please state skin closure method)		

Examples of minimum levels of complexity for each stage of training

Basic Training

patient with no previous lower transverse incision patient with previous lower transverse incision but without suspicion

Advanced patient with previous abdominal surgery and likely severe abdominal adhesions

Both sides of this form to be completed and signed

GENERIC **TECHNICAL SKILLS ASSESSMENT**

Assessor, please ring the candidate's performance for each of the following factors:

Documentation of procedures	Insight/attitude	Technical use of assistants Relations with patient and the surgical team	Suturing and knotting skills as appropriate for the procedure	Knowledge and handling of instruments	Time, motion and flow of operation and forward planning	Respect for tissue
Limited documentation, poorly written.	Poor understanding of areas of weakness.	Consistently placed assistants poorly or failed to use assistants. Communicated poorly or frequently showed lack of awareness of the needs of the patient and/or the professional team.	Placed sutures inaccurately or tied knots insecurely and lacked attention to safety.	Lack of knowledge of instruments.	Many unnecessary moves. Frequently stopped operating or needed to discuss next move.	Frequently used unnecessary force on tissue or caused damage by inappropriate use of instruments.
Adequate documentation but with some omissions or areas that need elaborating.	Some understanding of areas of weakness.	Appropriate use of assistant most of the time. Reasonable communication and awareness of the needs of the patient and/or of the professional team.	Knotting and suturing usually reliable but sometimes awkward.	Competent use of instruments but occasionally awkward or tentative.	Makes reasonable progress but some unnecessary moves. Sound knowledge of operation but slightly disjointed at times.	Careful handling of tissue but occasionally causes inadvertent damage.
Comprehensive legible documentation, indicating findings, procedure and postoperative management.	Fully understands areas of weakness.	Strategically used assistants to the best advantage at all times. Consistently communicated and acted with awareness of the needs of the patient and/or of the professional team.	Consistently placed sutures accurately with appropriate and secure knots and with proper attention to safety.	Obvious familiarity with instruments.	Economy of movement and maximum efficiency. Obviously planned course of operation with effortless flow from one move to the next.	Consistently handled tissues appropriately with minimal damage.

Based on the checklist and the Generic Technical Skills Assessment, $\mbox{Dr}\dots$ to achieve the OSAT competency ... has achieved/failed*

Signed (trainee)	Signed (trainer)	Date	Needs further help with: * *
Signed	Signed	Date	Competent to perform the entire procedure without the need for supervision