

Appendix 2: General Surgery Syllabus

The syllabus provides a description of the knowledge and clinical skills required for the high-level specialty-specific topics in each module and details of the technical skills required for each phase of training. Formative WBAs may be used to assess and provide feedback on any areas of clinical activity. However, other than for the critical conditions, index procedures or where they have been identified to address a concern, WBAs are optional and trainees, therefore, do not need to use WBAs to evidence their learning against each syllabus topic.

In the three phases of specialty training the following methodology is used to define the level of performance/competence to be achieved at completion of each phase of training:

Standards for knowledge

Specific competency levels in knowledge have been removed except for the critical conditions where the topic for a phase of training has a competence level ranging from 1 to 4 which indicates the depth of knowledge required:

1. knows of
2. knows basic concepts
3. knows generally
4. knows specifically and broadly

Standards for clinical and technical skills

The practical application of knowledge is evidenced through clinical and technical skills. Competency levels for clinical and technical skills range from 1-4 as detailed below.

1. Has observed

Exit descriptor; at this level the trainee:

- has adequate knowledge of the steps through direct observation
- can handle instruments relevant to the procedure appropriately and safely
- can perform some parts of the procedure with reasonable fluency.

2. Can do with assistance

Exit descriptor; at this level the trainee:

- knows all the steps - and the reasons that lie behind the methodology
- can carry out a straightforward procedure fluently from start to finish under direct supervision
- knows and demonstrates when to call for assistance/advice from the supervisor (knows personal limitations).

3. Can do whole but may need assistance

Exit descriptor; at this level the trainee:

- can adapt to well-known variations in the procedure encountered, without direct input from the trainer
- recognises and makes a correct assessment of common problems that are encountered
- is able to deal with most of the common problems
- knows when help is needed

- requires advice rather than help that requires the trainer to scrub.

4. Competent to do without assistance, including complications

Exit descriptor, at this level the trainee:

- with regard to the common clinical situations in the specialty, can deal with straightforward and difficult cases to a satisfactory level and without the requirement for external input
- is at the level at which one would expect a day-one UK consultant surgeon to function
- is capable of supervising trainees.

Specific competency levels for knowledge and clinical skills have been removed except for the critical conditions which are defined in appendix 3.

Competency levels for the technical skills required for each phase of training are detailed in the tables below.

In the following tables, shaded columns indicate modules that will be completed by all trainees. * indicates that knowledge and clinical skills are required to the level appropriate with the phase of training in any given module. Procedures highlighted in bold represent index cases.

ELECTIVE GENERAL SURGERY		
	Phase 2	Phase 3
SKIN AND SUBCUTANEOUS TISSUES		
OBJECTIVES		
Recognise and appropriately refer malignant skin lesions including BCC, SCC and malignant melanoma, skin metastases, angiosarcoma	*	*
Management of benign subcutaneous lesions including lipomata, sebaceous cysts	*	*
ABDOMINAL WALL		
OBJECTIVE		
Management of abnormalities of the abdominal wall, excluding hernia.	*	*
RETICULO-ENDOTHELIAL SYSTEM		
OBJECTIVE		
Knowledge of surgical support needed in the management of conditions affecting the reticulo-endothelial and haemopoietic systems.	*	*
VENOUS THROMBOSIS AND EMBOLISM		
OBJECTIVE		
Understanding of the pathophysiology of venous thrombosis and embolism, its prevention, diagnosis and management	*	*
GENETIC ASPECTS OF SURGICAL DISEASE		
OBJECTIVES		
Understanding of genetically determined diseases related to breast, endocrine, and gastrointestinal disease	*	*
Clinical and molecular genetics: Basic understanding of the principles of genetics	*	*
Understanding of modes of inheritance, genetic testing, screening and prophylactic/therapeutic interventions	*	*

ELECTIVE SURGERY FOR PATIENTS WITH SEVERE OBESITY		
OBJECTIVES		
Competency in the assessment and clinical management of patients with severe obesity in an open, stigma-free and fair manner	*	*
Understanding of how to advocate for patients living with obesity	*	*
Basic understanding of the peri-operative management of obesity and its complications/metabolic syndrome – including type II diabetes, obstructive sleep apnoea, hypertension	*	*
Knowledge of Metabolic Bariatric operations and their potential complications	*	*
GENERIC ONCOLOGY FOR SURGEONS		
OBJECTIVES		
Understanding of the basic principles of Surgical Oncology and knowledge of risk factors, basics of management and ways of evaluating cancer treatments	*	*
Clinical informatics: Basic understanding of the relevance of risk stratification and application of surveillance protocols as they apply to cancer management	*	*
ELECTIVE HERNIA		
OBJECTIVE		
Competency in the diagnosis and management, including operative management of primary and recurrent abdominal wall hernia	*	*
SURGICAL NUTRITION		
OBJECTIVE		
Recognise and assess nutritional requirements of the patient and appropriate routes of administration of nutrition	*	*
NECK SWELLINGS		
OBJECTIVE		
Competency in the assessment and management of neck swellings	*	*
BREAST CONDITIONS		
OBJECTIVE		
Competency in the assessment and initial management of patients with breast disease	*	*
SURGICAL APPROACHES		
Understand the basic principles and techniques of minimally invasive surgery including laparoscopic and robotic assisted surgery	*	*
MULTIDISCIPLINARY TEAM WORKING		
OBJECTIVE		
Understand the principals of multidisciplinary meetings and competency in the organisation and running of meetings	*	*
TECHNICAL SKILLS		
Punch biopsy	4	4
Excision of skin and subcutaneous lesions	4	4

Evacuation of haematoma	4	4
Biopsy - FNA Breast, neck, subcutaneous	4	4
Lymph node biopsy-groin, axilla and abdomen	4	4
Cervical lymph node biopsy	3	4
Insertion of nasogastric tube and confirmation of position	4	4
Repair primary abdominal wall hernias	4	4
Repair of incisional or recurrent hernias	3	4

EMERGENCY GENERAL SURGERY		
	Phase 2	Phase 3
SUPERFICIAL SEPSIS INCLUDING NECROTISING INFECTIONS		
OBJECTIVE		
Competency in the diagnosis and management of superficial sepsis, gas gangrene and other necrotising infections.	*	*
BREAST INFECTIONS		
OBJECTIVE		
Competency in the diagnosis and initial management of breast sepsis including sepsis associated with implant surgery	*	*
ACUTE ABDOMEN		
OBJECTIVE		
Competency in the recognition and management of the acute abdomen, including peritonitis and acute intestinal obstruction	*	*
EMERGENCY SURGICAL AMBULATORY CARE (ESAC)		
OBJECTIVE		
Competency in the selection and management of acutely presenting surgical patients in an ambulatory setting.	*	*
ACUTE APPENDICITIS		
OBJECTIVE		
Competency in the assessment and management of acute appendicitis	*	*
OBSTRUCTED AND STRANGULATED HERNIA		
OBJECTIVE		
Competency in the diagnosis and management of any strangulated abdominal hernia	*	*
GASTROINTESTINAL BLEEDING		
OBJECTIVE		
Competency in the diagnosis and management of upper and lower GI bleeding	*	*
SHOCK		
OBJECTIVE		
Knowledge and clinical skills in the diagnosis and management of different types of shock	*	*

COMPLICATIONS OF ABDOMINAL SURGERY		
OBJECTIVES		
Competency in the assessment and management of septic, obstructive or bleeding complications of GI surgery	*	*
Competency in the recognition and management of post operative complications following bariatric surgery	*	*
Understand the complications from pharmacotherapy options for the management of obesity	*	*
ABDOMINAL PAIN IN CHILDHOOD		
OBJECTIVE		
Competency in the assessment and management of a child with abdominal pain	*	*
INTUSSUSCEPTION		
OBJECTIVE		
Competency in the assessment and management of a child with intussusception including referral for radiological or surgical reduction	*	*
ACUTE GROIN AND SCROTAL CONDITIONS IN CHILDHOOD		
OBJECTIVE		
Competency in the assessment and management of a child with incarcerated inguinal hernia or acute scrotal condition	*	*
TECHNICAL SKILLS		
ACUTE DYSPHAGIA		
OBJECTIVE		
Competency in the assessment and initial management of patients presenting with acute dysphagia	*	*
OEESOPHAGEAL VARICES		
OBJECTIVE		
Competency in the assessment and initial emergency management of patients presenting with oesophageal varices	*	*
OEESOPHAGEAL PERFORATION including BOERHAAVE'S		
OBJECTIVE		
Competency in the assessment and initial management of patients with oesophageal perforation	*	*
ACUTE GASTRIC DILATION		
OBJECTIVE		
Competency in the assessment, initial and emergency management of patients presenting with acute gastric dilatation	*	*
ACUTE PERFORATION		
OBJECTIVE		
Competency in the assessment, investigation and management of a perforated viscus	*	*

ACUTE GASTRIC VOLVULUS		
OBJECTIVE		
Competency in the assessment and initial management of patients presenting with acute gastric volvulus	*	*
GALLSTONE DISEASE		
OBJECTIVE		
Competency in the assessment and management of acute complications of gallstones	*	*
ACUTE PANCREATITIS		
OBJECTIVES		
Competency in the diagnosis and initial management of patients with acute pancreatitis	*	*
Understand the risks of Obesity Management Medications (especially the link between GLP-1 agonists and acute pancreatitis)	*	*
CHRONIC PANCREATITIS		
OBJECTIVE		
Competency in the assessment and initial management of patients with chronic pancreatitis	*	*
PERI-ANAL SEPSIS		
OBJECTIVE		
Competency in the assessment and management acute peri-anal and pilonidal sepsis	*	*
ACUTE PAINFUL PERI-ANAL CONDITIONS		
OBJECTIVE		
Competency in the assessment and initial management of anal fissure, thrombosed haemorrhoids and perianal haematoma	*	*
ACUTE COLONIC DIVERTICULITIS		
OBJECTIVE		
Competency in the assessment and management of acute presentations of diverticular disease	*	*
COLONIC VOLVULUS		
OBJECTIVE		
Competency in the diagnosis and initial treatment of colonic volvulus	*	*
ACUTE COLITIS		
OBJECTIVE		
Competency in the diagnosis and management of acute colitis including ischaemic, inflammatory and infective	*	*
EMERGENCY ANEURYSM DISEASE		

OBJECTIVE		
Competency in the assessment and management of emergency aneurysm disease	*	*
MESENTERIC VASCULAR DISEASE		
OBJECTIVE		
Competency in the assessment and management of patients with acute and chronic mesenteric ischaemia	*	*
ACUTE LIMB ISCHAEMIA		
OBJECTIVE		
Competency to assess and initiate treatment of acute and chronic limb ischaemia and understand emergency management	*	*
TRAUMA PRINCIPLES		
OBJECTIVE		
Identification and management of the majority of abdominal injuries	*	*
ABDOMEN AND THORAX TRAUMA		
OBJECTIVE		
Competency to assess and initially manage blunt and penetrating thoracic and abdominal trauma	*	*
HEAD AND NECK TRAUMA		
OBJECTIVE		
Competency in the assessment and initial management of trauma to the Head and Neck	*	*
EXTREMITY AND SOFT TISSUE TRAUMA		
OBJECTIVE		
Competency in the assessment and management of blunt and penetrating injury of the soft tissues and skeleton.	*	*
VASCULAR TRAUMA		
OBJECTIVE		
Competency in the assessment and immediate management of injuries to blood vessels	*	*
COLON TRAUMA		
OBJECTIVE		
Competency in the appropriate diagnosis and treatment of colon trauma	*	*
ANORECTAL TRAUMA		
OBJECTIVE		
Competency in the diagnosis and treatment of rectal and anal trauma	*	*
PANCREATIC TRAUMA		
OBJECTIVE		

Competency in the assessment and management of patients with pancreatic trauma	*	*
LIVER TRAUMA		
OBJECTIVE		
Competency in the diagnosis and early management of liver trauma	*	*
TECHNICAL SKILLS		
Drainage of superficial sepsis	4	4
Radical excisional surgery of gas gangrene and necrotising infections	3	4
Aspiration of breast abscess	4	4
Open drainage of breast abscess and/or debridement of soft tissue necrosis	4	4
Removal of infected breast implant	4	4
Appendicectomy - open and laparoscopic, adult and paediatric	4	4
Repair any obstructed or strangulated abdominal hernia, including bowel resection	3	4
Operation for testicular torsion, adult and paediatric	4	4
Laparotomy / laparoscopy and damage limitation surgery	3	4
Salvage surgery e.g. packing	3	4
Wash out by laparoscopy/laparotomy	3	4
Laparotomy and division of adhesions	3	4
Small bowel resection	3	4
Gastrotomy + non-resectional treatment - histology	3	4
Partial gastrectomy	2	3
Operative management of perforated viscus including primary closure, resection and stoma formation	4	4
Segmental colectomy	3	4
Formation of stoma	3	4
Hartmann's procedure	3	4
Re-laparotomy for post-operative complication including damage control, bleeding and anastomotic leak	2	4
Indications for and techniques for laparostomy / open abdomen	2	4
Formation of feeding enterostomy (open / laparoscopy)	2	3
Colon-primary repair	3	4
Cholecystectomy – laparoscopic / open	3	4
Cholecystostomy	3	4
EUA, rigid sigmoidoscopy, drain perianal haematoma	4	4
Insertion of flatus tube	4	4
Chest drain insertion	4	4
Operative management of visceral injury including splenic conservation, bowel resection, debridement and formation of stoma where indicated	3	4
Splenectomy	3	4
Cricothyroidotomy	3	3
Wound debridement and lavage	3	4
Fasciotomy – Lower leg	2	2
Application of dressings including Topical Negative Pressure Dressings	3	4
Vascular control with compression	4	4

UPPER GI				
	Phase 2 Gen and GI	Phase 2 Specialty	Phase 3 OG	Phase 3 HPB
GASTRO-OESOPHAGEAL REFLUX DISEASE				
OBJECTIVE				
Competency in the assessment and management of patients with GORD	*	*	*	
HIATUS HERNIA				
OBJECTIVE				
Competency in the assessment and management of patients with hiatus hernia	*	*	*	
ACHALASIA AND OESOPHAGEAL MOTILITY DISORDERS				
OBJECTIVE				
Competency in the assessment and management of patients with achalasia and motility disorders	*	*	*	
OESOPHAGEAL PERFORATION INCLUDING BOERHAAVE'S (specialist)				
OBJECTIVE				
Competency in the assessment and management of patients presenting with oesophageal perforation	*	*	*	
OESOPHAGEAL CANCER				
OBJECTIVE				
Competency on the assessment and management of patients presenting with oesophageal carcinoma	*	*	*	
PEPTIC ULCER (specialist)				
OBJECTIVE				
Competency on the assessment and management of patients presenting with gastric or duodenal ulcer	*	*	*	
GASTRIC AND DUODENAL POLYPS				
OBJECTIVE				
Competency in the assessment and management of patients presenting with gastric and duodenal polyps	*	*	*	
ACUTE UPPER GI HAEMORRHAGE (specialist)				
OBJECTIVES				
Endoscopic diagnosis of upper GI haemorrhage, endoscopic management of most cases, operative management of cases where endostasis has failed, including management of complications.	*	*	*	

ACUTE GASTRIC DILATION AND GASTRIC VOLVULUS (specialist)				
OBJECTIVE				
Competency in the assessment and definitive management of patients with gastric dilatation of volvulus	*	*	*	
GASTRIC CARCINOMA				
OBJECTIVE				
Competency in the assessment and management of patients presenting with gastric cancer	*	*	*	
GIST AND LYMPHOMA				
OBJECTIVE				
Competency in the assessment and management of patients presenting with gastrointestinal stromal tumours or lymphoma	*	*	*	
BARIATRIC SURGERY				
OBJECTIVES				
Competency in the assessment and management of patients with morbid obesity	*	*	*	
Competency in the management of complications following metabolic bariatric operations		*	*	
Understand the current guidelines regarding indications and assessment of patients for metabolic bariatric surgery		*	*	
Understand the surgical management of complications following metabolic bariatric operations – including aspiration of a gastric band port, unclipping of a gastric band and repair of an internal hernia after gastric bypass			*	
Understand the mechanisms of action of metabolic bariatric surgery			*	
Understand the current pharmacotherapy options for the management of obesity			*	
Understand the need for long term clinical monitoring of post-operative metabolic bariatric surgery patients and how to assess those presenting with delayed or chronic complications			*	
Understanding of the options for patients with suboptimal weight loss, recurrent weight gain or recurrent comorbidities following metabolic bariatric surgery			*	
GALLSTONE DISEASE				
OBJECTIVE				
Competency in the assessment and management of gallstone disease	*	*	*	*
ACUTE PANCREATITIS (specialist)				
OBJECTIVE				
Competency in the assessment and management of patients with severe acute pancreatitis	*	*		*

CHRONIC PANCREATITIS (specialist)				
OBJECTIVE				
Competency in the assessment and management of patients with chronic pancreatitis	*	*		*
PANCREATIC CANCER / PERIAMPULLARY CANCER				
OBJECTIVE				
Competency In the assessment and management of patients with pancreatic and ampullary cancer	*	*		*
OTHER PANCREATIC TUMOURS				
OBJECTIVE				
Competency in the assessment and management of patients with tumours of the pancreas other than carcinoma	*	*		*
PANCREATIC TRAUMA (specialist)				
OBJECTIVE				
Competency in the assessment and management of patients with pancreatic trauma following initial resuscitation	*	*		*
LIVER METASTASES				
OBJECTIVE				
Competency in the assessment and management of liver metastases.	*	*		*
PRIMARY LIVER CANCER				
OBJECTIVE				
Competency in the assessment and management of primary liver cancer	*	*		*
CHOLANGIOCARCINOMA AND GALLBLADDER CANCER				
OBJECTIVE				
Assessment and management of cholangiocarcinoma and gallbladder cancer	*	*		*
BENIGN AND CYSTIC TUMOURS				
OBJECTIVE				
Assessment and management of benign and cystic tumours of the liver	*	*		*
LIVER TRAUMA (specialist)				
OBJECTIVE				
Diagnosis and ongoing management of liver trauma following initial resuscitation	*	*		*

ENDOSCOPY				
OBJECTIVE				
Competency in upper GI endoscopy	*	*	*	
TECHNICAL SKILLS				
Endoscopic treatment of achalasia	-	2	4	
Endoscopic excision including EMR	-	-	3	
Endoscopic palliation including stenting	-	-	4	
Oesophageal dilatation	-	-	3	
Thoracotomy/thoracoscopy and lavage	-	-	2	
Laparoscopy	3	4	4	
Oesophagectomy	-	-	3	
Oesophagogastrectomy	-	-	3	
Partial gastrectomy	-	1	3	
Total gastrectomy	-	-	3	
Antireflux surgery	-	1	4	
Revisional antireflux surgery	-	-	3	
Open or laparoscopic repair hiatus hernia repair	-	-	3	
Cardiomyotomy	-	1	3	
Laparoscopic access for patients with severe obesity	1	2	4	
Aspiration of laparoscopic band port	2	2	4	
Metabolic bariatric surgery - all options	-	-	4	
General Surgery for patient with severe obesity	2	3	4	
Gastrotomy + non-resectional treatment - histology	3	3	4	
Surgery for peptic ulcer including resection	-	2	3	
Open excision of GIST	-	-	4	
Surgery for polyps including resection, procedure depending on site	-	2	4	
Small bowel resection	4	4	4	
Gastroenterostomy	3	3	4	4
Cholecystectomy - laparoscopic / open	3	3	4	4
Exploration of common bile duct	1	2		4
Biliary bypass	-	-		4
Pancreatic debridement and drainage	-	-		2
Distal pancreatectomy	-	-		3
Pancreatic enucleation	-	-		3
Necrosectomy	-	-		2
Pancreaticoduodenectomy	-	-		3
Pancreaticojejunostomy	-	-		3
Pseudocyst drainage	-	-		2
Liver debridement and hepatectomy	-	-		1
Central liver resection	-	-		2
Extended hepatectomy	-	-		2

Liver resection	-	-		2
Peripheral wedge or segmental liver resection	-	-		3
Fenestration of liver cyst	-	-		3
Hepatic artery lymphadenectomy	-	-		2
Hepaticoduchojejunostomy	-	-		3
Salvage liver surgery e.g. packing	3	3		4

COLORECTAL			
	Phase 2 Gen and GI	Phase 2 Specialty	Phase 3
PILONIDAL DISEASE			
OBJECTIVE			
Competency in the management of pilonidal disease.	*	*	*
BENIGN ANAL CONDITIONS			
OBJECTIVE			
Competency in the diagnosis and medical and surgical management of benign anal conditions	*	*	*
BENIGN COLORECTAL CONDITIONS			
OBJECTIVE			
Competency in the diagnosis and medical and surgical management of benign colorectal conditions	*	*	*
RECTAL BLEEDING			
OBJECTIVE			
Management of patients with rectal bleeding and vascular malformations of the lower GI tract	*	*	*
ANORECTAL TRAUMA (specialist)			
OBJECTIVE			
Competency in the ongoing assessment and management of rectal and anal trauma	*	*	*
COLORECTAL NEOPLASIA			
OBJECTIVE			
Competency in the assessment and management of patients presenting with colonic neoplasia	*	*	*
RECTAL NEOPLASIA			
OBJECTIVE			
Competency in the assessment and management of patients presenting with rectal neoplasia	*	*	*
MISCELLANEOUS COLORECTAL MALIGNANT LESIONS			
OBJECTIVE			
Competency in the diagnosis and management of rarer tumours of the colon and rectum	*	*	*

ANAL NEOPLASIA			
OBJECTIVE			
Competence in the diagnosis and management of patients with anal canal and anal margin cancer	*	*	*
PRESACRAL LESIONS			
OBJECTIVE			
Competency in the management of presacral lesions	*	*	*
FAECAL INCONTINENCE			
OBJECTIVE			
Competency in the management of patients with faecal incontinence	*	*	*
RECTAL PROLAPSE			
OBJECTIVE			
Competency in the management of patients with rectal prolapse including internal intussusception and solitary rectal ulcer syndrome	*	*	*
CONSTIPATION			
OBJECTIVE			
Competency in the management of outlet obstruction constipation	*	*	*
Competency in the management of colonic inertia and colonic pseudo-obstruction.	*	*	*
IRRITABLE BOWEL SYNDROME			
OBJECTIVE			
Competency in the management of irritable bowel syndrome	*	*	*
INFLAMMATORY BOWEL DISEASE			
OBJECTIVE			
Competency in the diagnosis and medical and surgical management of IBD	*	*	*
OTHER COLITIDES			
OBJECTIVE			
Competency in the diagnosis and management of other colitides including ischaemic colitis, radiation colitis, infectious colitis, microscopic, diversion or neutropaenic colitis	*	*	*
STOMAS			
OBJECTIVE			
Competency in the management of patients with stomas	*	*	*
ENDOSCOPY			
OBJECTIVE			
Competency in lower GI endoscopy	*	*	*

TECHNICAL SKILLS			
Pilonidal sinus-lay open	4	4	4
Pilonidal sinus-excision and suture	4	4	4
Pilonidal sinus-graft or flap	2	2	3
Haemorrhoids - outpatient treatment	4	4	4
Haemorrhoidectomy - operative treatments	3	3	4
Lateral sphincterotomy	3	4	4
Anal advancement flap	-	1	3
Operations for fistula-in-ano including lay open, placement and choice of seton	3	3	4
Fistula - operation for rectovaginal fistula	-	2	3
Anal skin tags/warts-excision	4	4	4
Sigmoidoscopy-rigid	4	4	4
Rectum-operation for trauma	-	-	3
Segmental colectomy	3	3	4
Hartmann's procedure	3	3	4
Hartmann's reversal	2	3	4
Colectomy-total and ileostomy	3	3	4
Colectomy-total and ileorectal anastomosis	3	3	4
Rectum-panproctocolectomy and ileostomy	2	2	4
Ileoanal anastomosis and creation of pouch	2	2	3
Crohn's-ileocaecectomy	2	3	4
Strictureplasty-Crohn's	1	3	4
En-bloc resections of adjacent organs	3	3	4
Extended resections to include total abdominal colectomy	3	3	4
Transanal microsurgery (TEMS)	-	1	3
Per anal excision of rectal lesion	1	3	4
Rectum - posterior approach	-	1	2
Rectum - high anterior resection	2	3	4
Rectum - low anterior resection +/- coloanal anastomosis	1	2	3
Rectum - abdominoperineal excision (APER including ELAPE)	1	2	3
Posterior pelvic clearance	-	3	3
Pelvic exenteration	-	2	3
Reoperation-pelvic malignancy	-	2	3
Anal tumour- local excision	1	2	4
Anal tumour - abdominoperineal excision (APER)	1	2	3
Inguinal lymph node dissection	-	-	2
Anal sphincter repair including postanal repair, anterior sphincter repair	-	-	3
Anal sphincter - artificial sphincter/sacral nerve stimulation	-	-	2
Prolapse - abdominal rectopexy	-	2	3
Prolapse - rectopexy and sigmoid resection	-	2	3
Prolapse-perineal repair	1	2	4
Ventral mesh rectopexy (VMR)	-	2	3
Rectocele repair	-	-	3
Gastroenterostomy	3	3	4
Intestinal fistula operation	1	2	4

Ileostomy-construction	3	4	4
Colostomy-construction	3	4	4
Ileostomy-closure	3	3	4
Colostomy-closure	3	3	4
Colostomy-revision	2	3	4
Ileostomy-revision	2	3	4

GASTROINTESTINAL AND GENERAL SURGERY OF CHILDHOOD	
	Phase 3
GASTROINTESTINAL SURGERY	
GASTRO-OESOPHAGEAL REFLUX DISEASE	
OBJECTIVE	
Competency in the assessment and management of patients with GORD	*
HIATUS HERNIA	
OBJECTIVE	
Competency in the assessment and management of patients with hiatus hernia	*
ACHALASIA AND OESOPHAGEAL MOTILITY DISORDERS	
OBJECTIVE	
Competency in the assessment and management of patients with achalasia and motility disorders	*
OESOPHAGEAL CANCER	
OBJECTIVE	
Knowledge and clinical skills of patients presenting with oesophageal carcinoma	*
PEPTIC ULCER (specialist)	
OBJECTIVE	
Competency on the assessment and management of patients presenting with gastric or duodenal ulcer	*
GASTRIC AND DUODENAL POLYPS	
OBJECTIVE	
Competency in the assessment and management of patients presenting with gastric and duodenal polyps	*
ACUTE UPPER GI HAEMORRHAGE (specialist)	
OBJECTIVE	
Endoscopic diagnosis of upper GI haemorrhage, endoscopic management of most cases, operative management of cases where endostasis has failed, including management of complications.	*
ACUTE GASTRIC DILATION AND GASTRIC VOLVULUS (specialist)	
OBJECTIVE	

Competency in the assessment and management of patients with gastric dilatation of volvulus	*
GASTRIC CARCINOMA	
OBJECTIVE	
Knowledge and clinical skills of patients presenting with gastric cancer	*
GIST AND LYMPHOMA	
OBJECTIVE	
Competency in the assessment and clinical management of patients presenting with gastrointestinal stromal tumours or lymphoma	*
SEVERE OBESITY	
OBJECTIVE	
Competency in the assessment and clinical management of patients with severe obesity	*
GALLSTONE DISEASE	
OBJECTIVE	
Competency in the assessment and management of gallstone disease	*
ACUTE PANCREATITIS (specialist)	
OBJECTIVE	
Competency in the assessment and management of patients with severe acute pancreatitis	*
CHRONIC PANCREATITIS (specialist)	
OBJECTIVE	
Competency in the assessment and non-operative management of patients with chronic pancreatitis	*
PILONIDAL DISEASE	
OBJECTIVE	
Competency in the management of pilonidal disease.	*
BENIGN ANAL CONDITIONS	
OBJECTIVE	
Competency in the diagnosis and medical and surgical management of benign anal conditions	*
BENIGN COLORECTAL CONDITIONS	
OBJECTIVE	
Competency in the diagnosis and medical and surgical management of benign colorectal conditions	*
RECTAL BLEEDING	
OBJECTIVE	
Management of patients with rectal bleeding and vascular malformations of the lower GI tract	*

ANORECTAL TRAUMA (specialist)	
OBJECTIVE	
Competency in the assessment and initial management of rectal and anal trauma	*
COLORECTAL NEOPLASIA	
OBJECTIVE	
Competency in the assessment and management of patients presenting with colonic neoplasia	*
RECTAL NEOPLASIA	
OBJECTIVE	
Knowledge and clinical skills of patients presenting with rectal neoplasia	*
ANAL NEOPLASIA	
OBJECTIVE	
Knowledge and clinical skills of patients with anal canal and anal margin cancer	*
IRRITABLE BOWEL SYNDROME	
OBJECTIVE	
Competency in the management of irritable bowel syndrome	*
INFLAMMATORY BOWEL DISEASE	
OBJECTIVE	
Competency in the diagnosis and medical and surgical management of IBD	*
OTHER COLITIDES	
OBJECTIVE	
Competency in the diagnosis and management of other colitides including ischaemic colitis, radiation colitis, infectious colitis, microscopic, diversion or neutropaenic colitis	*
STOMAS	
OBJECTIVE	
Competency in the management of patients with stomas	*
ENDOSCOPY	
OBJECTIVE	
Competency in upper or lower GI endoscopy	*
GENERAL SURGERY OF CHILDHOOD	
CHILD WITH VOMITING	
OBJECTIVE	
The ability to assess a child with vomiting.	*
CONSTIPATION	
OBJECTIVE	
The ability to assess and manage a child with constipation	*

ABDOMINAL WALL CONDITIONS	
OBJECTIVE	
The ability to assess and manage a child with abdominal wall hernia	*
CHILD WITH GROIN CONDITION	
OBJECTIVE	
The ability to assess and manage a child with a common groin condition including undescended testes, inguinal hernia and hydrocele	*
UROLOGICAL CONDITIONS	
OBJECTIVES	
The ability to assess and manage a child with a common condition of the foreskin, urinary tract infection and haematuria	*
The ability to assess whether circumcision is indicated and carry it out.	*
HEAD AND NECK SWELLINGS	
OBJECTIVE	
The ability to assess and manage a child with a head and neck swelling	*
MISCELLANEOUS SKIN CONDITIONS	
OBJECTIVE	
The ability to assess and manage a child with superficial abscess or with ingrowing toenail.	*
GASTROINTESTINAL SURGERY	
TECHNICAL SKILLS	
Endoscopic treatment of achalasia	4
Laparoscopy	4
Partial gastrectomy	3
Antireflux surgery	3
Revisional antireflux surgery	2
Open or laparoscopic repair hiatus hernia repair	3
Cardiomyotomy	3
Laparoscopic access in the severely obese	4
Aspiration of lap band port	4
General Surgery for the super severely obese patient	4
Gastrotomy and non-resectional treatment - histology	4
Surgery for peptic ulcer including resection	3
Open excision of GIST	4
Surgery for polyps including resection, procedure depending on site	4
Small bowel resection	4
Gastroenterostomy	4
Cholecystectomy - lap / open	4
Pilonidal sinus-lay open	4
Pilonidal sinus-excision and suture	4
Pilonidal sinus-graft or flap	3
Haemorrhoids-Outpatient treatment	4

Haemorrhoidectomy-operative treatments	4
Lateral sphincterotomy	4
Laying open of fistula in ano	4
Insertion of seton	4
Anal skin tags/warts-excision	4
Sigmoidoscopy-rigid	4
Segmental colectomy	4
Hartmann's procedure	4
Hartmann's reversal	4
Colectomy-total and ileostomy	4
Colectomy-total and ileorectal anastomosis	4
Crohn's-ileocaecectomy	4
Strictureplasty-Crohn's	4
En-bloc resections of adjacent organs	4
Extended resections to include total abdominal colectomy	4
Gastroenterostomy	4
Intestinal fistula operation	4
Ileostomy-construction	4
Colostomy-construction	4
Ileostomy-closure	4
Colostomy-closure	4
Colostomy-revision	4
Ileostomy-revision	4
GENERAL SURGERY OF CHILDHOOD	
TECHNICAL SKILLS	
Pyloromyotomy	2
Manual evacuation	4
Repair of epigastric, supra-umbilical and abdominal wall hernia	4
Orchidopexy	3
Circumcision	4
Inguinal hernia (not neonatal) operation	4
Hydrocele operation	4
Suprapubic catheter insertion	2
Lymph node biopsy	3
Abscess drainage	4
In growing toenail operation	4

BREAST			
	Phase 2	Phase 3	Phase 3
	Module 1	Module 2A	Modul2B
BREAST AND AXILLARY ASSESSMENT			
OBJECTIVE			
Competency in the assessment and management of men and women with breast symptoms	*	*	

BREAST INFECTIONS			
OBJECTIVES			
Competency in the management of sepsis and soft tissue necrosis	*		*
Competency in the management of acute and chronic complex wounds in oncoplastic and breast reconstruction procedures	*		*
Competency in the management of implant salvage management in chronic sepsis	*		*
BREAST CANCER			
OBJECTIVES			
Competency in the assessment & management of all breast cancer presentations and treatment including screening	*	*	
Competency in the assessment and management of those at increased risk of breast cancer	*	*	
PRINCIPLES OF ONCOPLASTIC BREAST SURGERY			
OBJECTIVE			
Competency in the knowledge, assessment, limitations and risks of patients undergoing oncoplastic and reconstructive surgical procedures.	*	*	
IMPLANT BASED/ASSISTED RECONSTRUCTION			
OBJECTIVE			
Competency in the knowledge, assessment, limitations and risks of patients undergoing implant based/assisted breast reconstruction.	*		*
AUTOLOGOUS RECONSTRUCTION			
OBJECTIVE			
Knowledge and awareness of microvascular-based autologous breast reconstruction and pedicle flap reconstruction	*		*
BENIGN SURGERY OF THE BREAST			
OBJECTIVES			
Competency in the assessment and safe management of congenital asymmetry breast procedures	*		*
Competency in assessment and surgical management of gynaecomastia	*		*
TECHNICAL SKILLS			
Nipple smear	4	4	
Punch biopsy of skin / nipple	4	4	
Nipple surgery	4	4	
Palpable core biopsy of the breast	2	4	
Laying open breast fistula	4		4
Removal of infected breast implant and skin envelope revision	2		4
Surgical debridement of soft tissue necrosis - complex wound management	1		3
Salvage implant revision	1		4

Exploration of donor site complication	1		4
Partial and full thickness skin graft	1		3
BREAST CONSERVATION:			
Palpable	3	4	
Impalpable & image guided	2	4	
Oncoplastic wide local excision	1	4	
Mammoplasty WLE: using either reduction, displacement or replacement techniques	1	4	
MASTECTOMY:			
Mastectomy - Simple	2	4	
Mastectomy - Skin sparing +/- nipple preserving	1	3	
Mastectomy - Skin reducing	1	3	
AXILLARY SURGERY:			
Lymph node biopsy	3	4	
Axillary clearance -Primary, Level 1-3	1	4	
Axillary clearance -completion (delayed)	1	4	
Axillary surgery - repeat (recurrence)	1	3	
SLNB (any technique)	3	4	
Preoperative marking of patient for oncoplastic procedures and breast reconstruction	-	4	
Minimising infection: antibiotics, drains, changing gloves, laminar theatres etc	2	4	
Lipomodelling techniques in oncoplastic & reconstructive breast surgery	-	4	
Planning, execution and closing incisions on the breast with reference to aesthetic principles and subunits	2	4	
Nipple reconstruction techniques	-	4	
Nipple free graft	-	4	
Creation and closure of sub-pectoral pocket	1		4
Orient devices and prepare appropriately	-		4
Two stage reconstruction using TEX and subsequent exchange for FVI	-		4
Single stage reconstruction using FVI/TEX and biological & non biological mesh	1		4
Inferior dermal sling to achieve implant cover	-		4
Pre pectoral pocket	1		3
Techniques in capsulotomy, capsulectomy and revision implant surgery	-		3
Raising and inseting pedicled autologous TRAM flap	-		1
Raising and inseting pedicled autologous LD flap (including implant assisted LD)	-		2
Raising and inseting a local perforator flap	-		3
Free-flap Techniques	-		2
Scar revision in aesthetic breast surgery	1		3
Correction of the inverted nipple (various techniques)	-		1

Bilateral breast reduction by various patterns and techniques	1		3
Bilateral breast augmentation by various routes, in various planes	1		3
Bilateral mastopexy by various patterns and techniques	1		3
Excision of gynaecomastia, incorporating various forms of liposuction as appropriate	-		3
Unilateral or differential breast augmentation to attain symmetry	-		2
Unilateral or asymmetric breast reduction in pattern or volume to attain symmetry	-		3
Synchronous mastopexy and breast augmentation in several patterns	-		2
Correction of tuberous breast by combinations of mastopexy, augmentation or tissue expansion	-		2
Revision procedures following previous aesthetic surgery of the breast	-		2
Aesthetic surgery of the breast in patients with previous breast cancer or irradiation.	-		1

ENDOCRINE		
	Phase 2	Phase 3
THYROID		
OBJECTIVE		
Competency in the assessment and management of patients with thyroid swellings and thyrotoxicosis	*	*
PARATHYROID		
OBJECTIVE		
Competency in the assessment and management of parathyroid disease	*	*
ADRENAL		
OBJECTIVE		
Competency in the assessment and management of adrenal swellings	*	*
PANCREATIC ENDOCRINE		
OBJECTIVE		
Competency in the diagnosis and non-operative management of pancreatic endocrine tumours	*	*
GENETIC SYNDROMES		
OBJECTIVE		
Competency in the diagnoses and management of patients with MEN and other genetic disorders	*	*
TECHNICAL SKILLS		
Thyroid lobectomy	2	4
Subtotal thyroidectomy	2	4
Total Thyroidectomy	2	4
Thyroidectomy - toxic goitre	1	4

Thyroidectomy - total and cervical node dissection - central and lateral compartments	-	4
Thyroid surgery - reoperation	1	4
Cervical approach to retrosternal goitre	1	4
Sternotomy for retrosternal goitre	-	4
Thymectomy - transcervical approach	1	4
Direct laryngoscopy	1	4
Parathyroidectomy	1	4
Parathyroid surgery - reoperation	-	4
Laparoscopic/retroperitoneal adrenalectomy	-	3
Open adrenalectomy	-	3

TRANSPLANT				
	Phase 2	Phase 3 Renal	Phase 3 liver + retrieval	Phase 3 pancreas + retrieval
ACCESS FOR DIALYSIS				
OBJECTIVE				
Competency in the management of patients requiring access for renal dialysis	*	*		
KIDNEY TRANSPLANT				
OBJECTIVES				
Competency in the assessment and management of patients requiring renal transplantation	*	*		
Competency of management of renal vein thrombosis	*	*		
Competency in the assessment and management of delayed renal graft function	*	*		
Competency in the assessment and management of ureteric stricture	*	*		
PAEDIATRIC KIDNEY TRANSPLANTATION				
OBJECTIVE				
Ability to assess paediatric patients for kidney transplantation and manage their care	*	*		
PRINCIPLES OF TRANSPLANTATION				
OBJECTIVES				
Knowledge of pathophysiology, indications and contraindications for kidney, pancreas and liver transplantation	*	*	*	*
Knowledge of acute cellular rejection, antibody mediated rejection and graft-versus-host disease	*	*	*	*
Knowledge of post transplant viral infection and post transplant lymphoproliferative disorders (PTLD)	*	*	*	*
PANCREATIC TRANSPLANTATION				
OBJECTIVES				

Assessment of patients for pancreatic transplantation in consultation with physicians; operative management and post operative care	*			*
Competency in the assessment and management of post transplant graft pancreatitis	*			*
LIVER TRANSPLANTATION				
OBJECTIVES				
Competency in the assessment and management of patients requiring liver transplantation	*		*	
Competency in the assessment and management of hepatic artery thrombosis	*		*	
Competency in the assessment and management of primary non-function (PNF) of the liver	*		*	
ORGAN RETRIEVAL				
OBJECTIVE				
The ability to retrieve abdominal organs for transplantation	*	*	*	*
TECHNICAL SKILLS				
Insert central venous dialysis catheter (tunnelled)	2	3		
Insert and remove peritoneal catheters	2	4		
A-V fistula ligation	2	4		
Construct a-v fistula - Radio-cephalic, brachio-cephalic, brachio-basilic, basilic vein transposition	2	4		
Access secondary vascular	1	4		
Upper & lower limb PTFE graft	1	3		
On-table fistulogram/plasty	1	2		
Graft thrombectomy and revision	1	4		
Ligation and excision of fistula / graft	1	4		
Management of steal syndrome	1	4		
Complex revision procedures	1	3		
Kidney transplant -benchwork preparation	1	4		
Kidney transplant - donor operation - deceased	1	2		
Kidney transplant - donor operation - live donor	1	2		
Kidney transplant - complete operation - deceased donor	1	4		
Kidney transplant - complete operation - live donor	1	3		
Kidney transplant - complete operation - regraft on side of previous transplant	1	2		
Paediatric kidney transplant (live donor and deceased donor)	-	2		
Pancreas transplant -benchwork preparation of pancreas for implantation	-	-	-	3
Pancreatic transplant - donor pancreatectomy	-	-	-	3
Pancreatic transplant implant graft	-	-	-	2
Bench preparation of liver allograft for implantation	-	-	3	-
Recipient hepatectomy	-	-	2	-

Deceased donor liver transplant (implantation)	-	-	2	-
Living donor liver transplant (implantation)	-	-	1	-
Re-do deceased liver transplant	-	-	1	-
Liver resection	-	-	3	-
Kidney retrieval - donor: deceased	-	2	4	4
Kidney retrieval - donor: live	-	2	2	2
Liver retrieval - Donation after brain death (DBD)	-	-	4	4
Liver retrieval - Donation after circulatory death (DCD)	-	-	2	2
Pancreas retrieval - Donation after brain death (DBD)	-	-	4	4
Pancreas retrieval - Donation after cardiac death (DCD)	-	-	2	2
Multiorgan retrieval after brain death (DBD)	-	2	4	4

GENERAL SURGERY OF CHILDHOOD	
	Phase 2
ABDOMINAL WALL CONDITIONS	
OBJECTIVE	
The ability to assess and manage a child with abdominal wall hernia	*
CHILD WITH GROIN CONDITION	
OBJECTIVE	
The ability to assess and manage a child with a common groin condition including undescended testes, inguinal hernia and hydrocele	*
UROLOGICAL CONDITIONS	
OBJECTIVES	
The ability to assess and manage a child with a common condition of the foreskin, urinary tract infection and haematuria	*
The ability to assess whether circumcision is indicated and carry it out.	*
HEAD AND NECK SWELLINGS	
OBJECTIVE	
The ability to assess and manage a child with a head and neck swelling	*
MISCELLANEOUS SKIN CONDITIONS	
OBJECTIVE	
The ability to assess and manage a child with superficial abscess or with ingrowing toenail.	*
TECHNICAL SKILLS	
Pyloromyotomy	2
Manual evacuation	4
Repair of epigastric, supra-umbilical and abdominal wall hernia	4
Orchidopexy	3
Circumcision	4
Inguinal hernia (not neonatal) operation	4
Hydrocele operation	4
Suprapubic catheter insertion	4
Lymph node biopsy	3

Abscess drainage	4
In growing toenail operation	4

VASCULAR	
	Phase 2
EXPOSURE AND CONTROL OF MAJOR PERIPHERAL ARTERIES	
OBJECTIVE	
To be able to expose and control major vessels including femoral, popliteal, brachial and carotid arteries	*
TECHNICAL SKILLS	
Exposure and control of major peripheral arteries	4
Basic techniques for repair of major peripheral arteries	3
Shunting	3

REMOTE AND RURAL	
	Phase 2
CRANIAL TRAUMA	
MANAGEMENT OF HEAD INJURED PATIENTS	
OBJECTIVE	
Competency in the management of head-injured patients	*
CRANIO MAXILLOFACIAL TRAUMA	
FACIAL FRACTURES	
OBJECTIVE	
Competency in the assessment of a patient with suspected facial fracture and appropriate referral	*
OBSTETRICS AND GYNAECOLOGY	
OBSTETRICS	
OBJECTIVE	
Competency in the organisation and management of delivery including Caesarean section and its complications	*
GYNAECOLOGY	
OBJECTIVE	
Competency in the management of common gynaecological emergencies and in the management of early pregnancy complications	*
OPHTHALMOLOGY	
OBJECTIVE	
Ability to deal with common minor eye emergencies and refer serious problems appropriately	*
OTOLARYNGOLOGY	
PAEDIATRIC OTOLARYNGOLOGY	
OBJECTIVE	
Competency in the initial management of children with ENT problems	*

ADULTS	
HEAD AND NECK	
OBJECTIVE	
Competency in the initial management of patients with neck pathology	*
OTOLOGY	
OBJECTIVE	
Competency in the assessment and initial management of patients with ear problems	*
RHINOLOGY	
OBJECTIVE	
Competency in the assessment and initial management of patients with nasal trauma and epistaxis	*
PLASTIC SURGERY	
OBJECTIVE	
Competency in the assessment and initial management of patients with burns	*
TRAUMA AND ORTHOPAEDICS	
TRAUMA	
OBJECTIVE	
Competency in the assessment and initial management of patients with soft tissue and bony injuries of the limbs	*
ORTHOPAEDICS	
OBJECTIVE	
Competency in the assessment and initial management of patients with an acute presentation of orthopaedic pathology	*
UROLOGY	
STONE DISEASE	
OBJECTIVE	
Competency in the assessment and initial management of patients presenting with renal tract calculi	*
URINARY TRACT OBSTRUCTION	
OBJECTIVE	
Competency in the assessment and initial management of patient presenting with lower urinary tract symptoms or retention	*
URINARY TRACT INFECTIONS	
OBJECTIVE	
Competency in the assessment and management of patients with urinary tract infection and genital tract infections	*

UROLOGICAL ONCOLOGY	
OBJECTIVE	
Competency in the initial assessment and management of patients presenting with urological cancer	*
ANDROLOGY	
OBJECTIVE	
Competency in the assessment and counselling of a man requesting a vasectomy	*
EMERGENCY UROLOGY	
OBJECTIVE	
Competency in the assessment and initial management of patients presenting acutely with urological disease	*
TRAUMA TO THE URINARY TRACT	
OBJECTIVE	
Competency in the assessment and initial management of patients presenting with genitourinary trauma	*
TECHNICAL SKILLS	
Craniotomy for supratentorial extradural haematoma	1
Closed manipulation of nasal bones and septum	1
Emergency LSCS	1
Manual removal of retained placenta	1
Exploration of genital tract, cervical laceration repair	1
EUA, repair perineal trauma	1
Evacuation of retained products of conception	1
Laparoscopic and open salpingectomy for ectopic pregnancy	1
Diagnostic laparoscopy	2
Laparoscopy and open oophorectomy for torsion	1
Nasal cautery	2
EUA nose	2
Appropriate nasal packing in a child	2
Endotracheal intubation	3
Suturing of pinna	2
Split skin graft	1
Manipulation under anaesthetic of appropriate fracture	2
Reduction of dislocations dependent on site	2
Trigger finger release	2
Aspiration / injection knee joint	2
In growing toenail operation	3
Endoscopic fragmentation of bladder calculi	1
Open removal bladder calculi	1
Rigid cystoscopy, retrograde ureterogram, insertion of JJ stent	2
Bladder neck incision	1

Percutaneous insertion of suprapubic catheter	2
Optical urethrotomy	1
TURP	1
Flexible Cystoscopy	3
TRUS & Biopsy	1
Cystoscopy and biopsy	2
Cystoscopy and diathermy bladder lesion	1
Vasectomy	2
Surgical exploration for torsions of testis, with fixation	2
Circumcision	3

TRAUMA		
	Phase 2	Phase 3
GENERAL PRINCIPLES		
OBJECTIVE		
Competency in the assessment, treatment and ongoing management of the multiply injured patient	*	*
ABDOMEN AND THORAX		
OBJECTIVE		
Assessment and management of blunt and penetrating abdominal and thoracic injury	*	*
HEAD AND NECK		
OBJECTIVE		
Identification, assessment and initial management of trauma to the Head and Neck	*	*
EXTREMITY AND SOFT TISSUE TRAUMA		
OBJECTIVE		
Assessment and management of blunt and penetrating injury of the soft tissues and skeleton.	*	*
VASCULAR TRAUMA		
OBJECTIVE		
Identification, assessment and management of injuries to blood vessels	*	*
SYSTEM SPECIFIC TRAUMA		
OBJECTIVE		
Competency in the assessment and management of patients with system specific trauma	*	*
ON GOING CARE OF INJURED PATIENTS		
OBJECTIVE		
Competency in the ongoing management of trauma patients	*	*
TRAUMA SYSTEM MANAGEMENT		
OBJECTIVE		

Knowledge of trauma system methodology and improvement processes	*	*
TECHNICAL SKILLS		
Arrest haemorrhage by suture/ligation/packing	4	4
Closed and penetrating thoracic injury		
Chest drain insertion	4	4
Lateral thoracotomy	1	4
Median sternotomy	1	4
Clamshell thoracotomy	-	4
Hilar control of massive pulmonary haemorrhage	-	4
Non-segmental lung resection	-	4
Pulmonary tractotomy using staplers	-	4
Pericardotomy	-	4
Control and suture of myocardial laceration	-	4
Closed and penetrating abdominal injury		
Laparotomy - trauma	3	4
Packing / debridement of liver trauma	3	4
Splenectomy	3	4
Splenic repair	2	4
Small bowel resection	3	4
Distal pancreatectomy	-	2
Pancreatic debridement and drainage	-	4
Mobilisation and repair of the duodenum	2	4
Medial rotation of left hemicolon and colectomy when appropriate	2	4
Medial rotation of right hemicolon and colectomy when appropriate	2	4
Hartmann's Procedure	3	4
Nephrectomy	-	2
Bladder repair	3	4
Stoma formation	3	4
Temporary abdominal closure Bogota Bag or Topical Negative Pressure Dressing	3	4
Exposure, control and repair of vascular, airway or GI tract structures in the neck	1	3
Cricothyroidotomy	3	4
Formal tracheostomy	1	4
Burr holes	-	1
Craniotomy/Craniectomy	-	1
Evacuation of Extradural/Subdural haematoma	-	1
Debridement of injured brain	-	1
Lateral canthotomy for orbital decompression	-	1
Proximal arterial control		
Femoral	3	4
Brachial	3	4
Subclavian	2	4
Soft Tissue Management		
Wound debridement and lavage	4	4
Fasciotomy -Lower leg	2	4
Fasciotomy -Thigh	2	4

Fasciotomy -Upper limb	2	4
Application of dressings	4	4
Application of Topical Negative Pressure Dressings	4	4
Split skin grafting	1	1
Control with compression	4	4
Surgical options		
<i>Exposure and control of major vessels</i>		
Thoracic aorta	1	4
Abdominal aorta (infra and supra renal)	1	4
Subclavian and axillary arteries	-	4
Femoral and popliteal arteries	2	4
Use of shunts	-	4
Ligation	3	4
Direct suture repair	2	4
End to end anastomosis	2	2
Interposition vein / prosthetic graft	2	2
Panel / spiral grafts	-	2
Fasciotomy	2	4
Radiological		
Intra-operative imaging techniques	-	1
options for control of bleeding	-	1