

MODULE TITLE:	ABDOMINAL WALL, RETROPERITONEUM, UROGENITAL
Module Rationale and Objectives	A general surgeon is required to have a thorough understanding of normal anatomy and physiology, as well as pathophysiology, investigations, differential diagnosis and surgical and non-surgical management of abdominal wall and retroperitoneal disorders. It is important that general surgeons maintain a current understanding of the most appropriate time and manner of intervention. The graduating trainee will be able to: describe common surgical pathologies of the abdominal wall and retroperitoneum identify and recognise the symptoms and signs of these conditions describe and select appropriate diagnostic testing identify appropriate treatment options, and their indications and contraindications diagnose and manage pathological conditions that pertain to the abdominal wall, retroperitoneum and urogenital tract, including referral to other specialists where indicated select appropriate investigative tools adapt their skill in the context of each patient and each procedure identify and manage risk recognise the need to refer patients to other professionals communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent)
Anatomy, Physiology, Pathology	Trainees should have basic knowledge of the normal embryology, anatomy, and pathology, of: abdominal cavity and its walls inguinoscrotal region external genitalia urogenital tract
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.

	TECHNICA	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Adult groin hernias • inguinal • femoral			
Early SET		 Open (mesh) repair of inguinal hernia Open repair of femoral hernias Open repair of strangulated and non-strangulated femoral and inguinal hernias Laparoscopic inguinal hernia repair 	
Paediatric inguinal hernia	a/congenital hydrocele		
Mid SET	■ Inguinal herniotomy		
Umbilical/para-umbilical	/epigastric hernia		
Early SET		 Repair of umbilical/ paraumbilical hernia (with or without mesh) 	
Exomphalos/Gastroschis	is		
Incisional/ventral hernia	ns		
Mid SET		 Open repair of abdominal incisional hernia, with and without mesh/ bowel resection A retro-rectus mesh repair 	
Late SET	 Laparoscopic incisional hernia repair (indications and contraindications) Incisional hernia repair using separation of components Techniques to restore abdominal domain 	■ Open repair of irreducible incisional hernia	



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Abdominal wound dehiscence	e/burst abdomen	
Mid SET		Definitive closure of abdominal wound dehiscenceManagement of the open abdomen
Open abdomen / laparostom	y See also Trauma Module	
Mid SET Late SET		 Laparostomy Application of vacuum dressing Definitive wound closure Graduated Fascial closure techniques
Other abdominal wall hernia	S	
SpigelianLumbarObturator		
Mid SET		Open hernia repair (with or without mesh)
Late SET	 Laparoscopic repair of other hernias 	
Stomal hernia See Colorectal Module		
Epididymo-orchitis See Emergency Module		
See Emergency Wodale		
Testicular torsion See Emergency Module		
Haematocele/Scrotal haema	toma	
Mid SET		 Scrotal exploration and drainage
Epididymal cyst		
Mid SET		 Excision of epididymal cyst scrotal exploration and drainage
Adult hydrocele (acquired)		
Mid SET		 Operative cure of hydrocele
Mal-descent of the testis – pa	aediatric and adult	
Late SET	OrchidopexyLaparoscopic exploration for absent testis	
Varicocele		
Mid SET		 Surgical treatment of varicocele (inguinal approach)
Late SET	■ Laparoscopic treatment of varicocele	
Testicular tumours - benign a	/ malignant	
Early SET	Orchidectomy via inguinal approach	
Mid SET	 Testicular exploration and/or radical orchidectomy (inguinal approach) 	
Vasectomy		
Mid SET		 Vasectomy



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Nephro-/uretero-/vesico-lithia	asis	
See Emergency Module		
Phimosis/ paraphimosis		
See Emergency Module		
Other peripheral perve entrans	ments	
Other peripheral nerve entrapo See Skin & Soft Tissue Module	ments	



MODULE TITLE:	BREAST	
Module Rationale and Objectives	The clinical features of breast disease require early detection, careful investigation and appropriate operative management. This module addresses issues that need to be considered in diagnosing and making decisions about the immediate as well as long-term needs of the patient. The graduating trainee will be able to: • describe common surgical pathologies of Breast Diseases • identify and recognise the symptoms and signs of these conditions • assess and treat any common breast conditions likely to be encountered in consultative general surgical practice • describe and select appropriate diagnostic testing • identify appropriate treatment options, and their indications and contraindications • recognise which conditions to refer on to a specialised multidisciplinary oncology service • employ a consultative approach with colleagues and other professionals • critically appraise new trends in the surgical management of the breast • select appropriate investigative tools and monitoring techniques in a cost effective manner • convey bad news to patients in a way that conveys sensitivity to the patient's social, cultural and psychological needs • communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent)	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology, of: • breast • axilla • lymphatic systems • pituitary gonadal axis • steroid hormone biochemistry and molecular biology	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

SET LEVEL	TECHNIC	TECHNICAL EXPERTISE	
	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Benign breast disease	,		
Early SET	 Image-guided fine needle aspiration and/or core biopsy 	 Clinical fine needle aspiration Skin punch biopsy Core biopsy Excisional biopsy 	
Mid SET		Wire / carbon localised excision biopsyMicrodochectomy	
Late SET	Office ultrasound		
Indeterminate prolife	rative lesions		
Mid SET		Localised excision biopsy	
Nipple discharge			
Mid SET		MicrodochectomyCentral duct excision	
Breast pain			
Inflammatory condition	ons, breast abscess		
Early SET	 Ultrasound-guided aspiration of deep/recurrent collections 	 Clinical aspiration of palpable breast abscess 	
Mid SET		 Excision of central ducts in chronic inflammation 	
Late SET	 Lay open/excise mammary fistula Management of complex mammary fistula Operative management of mammary fistula 		

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Office ultrasound



Early breast cancer Early SET		TECHNICAL EXPERTISE	
Wild SET Wild local excision (complete local excision) Wild local excision (complete local excision) Mastectomy Sentinel node biopsy (probe and blue dye)	SET LEVEL		
#Wide local excision (complete local excision) *Mastoctomy *Sentinel node biopsy (probe and blue dye) *Breast screening *See also Surgical Oncology Module *Mid SET **Surgical management of positive screening finding *Early SET **Surgical management of positive screening finding **Wide local excision (complete local excision) of because of the screening finding in the sc	Ductal Carcinoma in Situ		
See also Surgical Oncology Module	Mid SET		Wide local excision (complete local excision)Mastectomy
Early breast cancer Early SET	-	dule	
Early SET Mid SET Principles of enceplastic surgery Breast reconstruction Sikin sparing mastectomy Nilpple sparing mastectomy N			 Surgical management of positive screening findings
. Wide local excision (complete local excision) of b cancer . Mastectorny . Sentine I node biopsy Late SET Principles of oncoplastic surgery . Breast reconstruction . Skin sparing mastectomy . Nipple sparing mastectomy . Punch biopsy . Wide local excision (complete local excision) of b cancer . Mastectomy . Axillary dissection . Wide local excision (complete local excision) of b cancer . Mastectomy . Axillary dissection . Skin graftling . Insertion permanent central venous catheter (portacath): See also Vascular Module . Skin graftling . Insertion permanent central venous catheter (portacath): See also Vascular Module . See also Surgical Oncology Module . Axillary nodes unknown primary . See also Surgical Oncology Module . Axillary nodes unknown primary . Axillary node biopsy . Mastectomy . Axillary dissection . Axillary node biopsy . Mastectomy . Axillary dissection . Axillary dissection . Axillary node biopsy . Axillary dissection . Axillary dissect	Early breast cancer		
Late SET Principles of ancoplastic surgery Sentinel node biopsy I Principles of ancoplastic surgery Sentinel node biopsy I Breast reconstruction Skin sparing mastectomy I Nipple sparing mastectomy I Nipple sparing mastectomy I Nipple sparing mastectomy I Prunch biopsy I Prunch biopsy I Wilde local excision (complete local excision) of brancer I Mid SET Press on Servation post primary/neoadjuvant chemotherapy I Breast conservation post primary/neoadjuvant chemotherapy I Dest neoadjuvant Mastectomy Axillary dissection I Complex salvage surgery: I breast and chest wall I axilla I servation permanent central venous catheter (portacath): See also Vascular Module I See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary node biopsy Mastectomy Mastectomy Mastectomy Axillary node biopsy Mastectomy Mastecto	Early SET		■ Wire / carbon localised biopsy
Breast reconstruction Skin sparing mastectomy Nipple sparing mastectomy Nipple sparing mastectomy Early SET Mid SET Reconstructive techniques post radical excision Late SET Breast conservation post primary/neoadjuvant chemotherapy Advanced breast cancer Mid SET Complex salvage surgery: Stallia Sallia Sallia Set Pleurodesis – chemical or talc Male breast disease Mid SET Pieurodesis – chemical or talc Male SET Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Mid SET A Kalliary node biopsy Mastectomy Mid SET A Kalliary node biopsy Mastectomy A Kalliary dissection A Kalliary node biopsy Mastectomy A Kalliary node biopsy Mastectomy A Kalliary dissection		■ Principles of ancoplastic surgery	MastectomySentinel node biopsy
Early SET Mid SET Reconstructive techniques post radical excision Reconstructive techniques post radical excision (complete local excision (on cancer mathematics) of because of the satillary surgestion of consequences and axillary surgestion post and axillary surgestion axillary surgestion of cosmesis Reconstructive techniques post axillary part post post post part part part part part part part par	Late SET	Breast reconstructionSkin sparing mastectomy	- Axillary dissection
Reconstructive techniques post radical excision Wide local excision (complete local excision) of b cancer Mastectomy	Locally advanced breast car	ncer	
Late SET Breast conservation post primary/neoadjuvant chemotherapy Advanced breast cancer Mid SET Complex salvage surgery: - breast and chest wall - axilla - axilla Pleurodesis – chemical or talc Male breast disease Mid SET Pleurodesis – chemical or talc Male breast disease Mid SET Subcutaneous mastectomy for gynaecomastia, recognition of cosmesis - Mastectomy and axillary surgery for cancer; See Early Breast Cancer Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Mid SET Axillary nodes unknown primary See also Surgical Oncology Module Axillary node biopsy - Mastectomy - Axillary dissection	Early SET		■ Punch biopsy
Advanced breast cancer Mid SET Complex salvage surgery: breast and chest wall axilla Pleurodesis – chemical or talc Male breast disease Mid SET Mid SET Pleurodesis – chemical or talc Male breast disease Mid SET Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary node unknown primary See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Axillary node biopsy Mid SET Axillary node biopsy Mastectomy Axillary node biopsy Mastectomy Axillary node biopsy Axillary node biopsy Mastectomy Axillary node biopsy	Mid SET	 Reconstructive techniques post radical excision 	
## Post neoadjuvant Mastectomy and axillary surgery: - breast and chest wall - axilla **Pleurodesis – chemical or talc ### Pleurodesis – chemical or talc ### Pleurodesis – chemical or talc ### Pleurodesis – chemical or talc #### Pleurodesis – chemical or talc #### Pleurodesis – chemical or talc #### Pleurodesis – chemical or talc ###################################	Late SET		 Axillary dissection
- breast and chest wall - axilla - breast and chest wall - axilla - axilla - axilla - axilla - axilla - Insertion permanent central venous catheter (portacath): See also Vascular Module Male breast disease Mid SET - Subcutaneous mastectomy for gynaecomastia, recognition of cosmesis - Mastectomy and axillary surgery for cancer; See Early Breast Cancer Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Mid SET - Axillary node biopsy - Mastectomy - Axillary node biopsy - Mastectomy - Axillary node biopsy - Mastectomy - Axillary dissection	Advanced breast cancer		
Male breast disease Mid SET Subcutaneous mastectomy for gynaecomastia, recognition of cosmesis Mastectomy and axillary surgery for cancer; See Early Breast Cancer Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Mid SET Axillary node biopsy Mastectomy Axillary node biopsy Mastectomy Axillary dissection	Mid SET	- breast and chest wall	 Insertion permanent central venous catheter
Mid SET Subcutaneous mastectomy for gynaecomastia, recognition of cosmesis Mastectomy and axillary surgery for cancer; See Early Breast Cancer Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Mid SET Axillary node biopsy Mastectomy Mastectomy Axillary dissection	Late SET	■ Pleurodesis – chemical or talc	
recognition of cosmesis Mastectomy and axillary surgery for cancer; See Early Breast Cancer Multidisciplinary care See also Surgical Oncology Module Axillary nodes unknown primary See also Surgical Oncology Module Mid SET Axillary node biopsy Mastectomy Mastectomy Axillary node biopsy Mastectomy Axillary node biopsy Mastectomy Axillary node biopsy Axillary node biopsy	Male breast disease		
Axillary nodes unknown primary See also Surgical Oncology Module Mid SET Axillary node biopsy Mastectomy Office ultrasound and guided needle biopsy of axillary Axillary node biopsy Axillary node biopsy Axillary node biopsy Axillary node biopsy Axillary dissection	Mid SET		recognition of cosmesis • Mastectomy and axillary surgery for cancer; See also
See also Surgical Oncology Module Mid SET Mid SET Axillary node biopsy Mastectomy Late SET Office ultrasound and guided needle biopsy of axillary Axillary dissection	· · · · · · · · · · · · · · · · · · ·	dule	
Mid SET Axillary node biopsy Mastectomy Late SET Office ultrasound and guided needle biopsy of axillary Axillary dissection	•	-	
Late SET • Office ultrasound and guided needle biopsy of axillary • Axillary dissection		uuic	
	Late SET		
Lymphoedema See also Vascular Module			

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MODULE TITLE:	COLORECTAL
Module Rationale and Objectives	Colorectal problems are a common condition in General Surgery. The individual presenting with colorectal disease is frequently experiencing significant symptoms which impacts on preoperative decision making and timing of any surgical intervention. This module covers issues relevant to clinical decision making and surgical management, including evidence based interventions in the perioperative period. The graduating trainee will be able to: • describe common surgical pathologies including colorectal cancer, diverticular disease, Crohn's disease, ulcerative colitis, haemorrhoids, perianal sepsis (abscess, fistula), and fissure in ano. • describe and assess the symptoms and signs of these conditions • describe and select appropriate diagnostic testing • identify appropriate treatment options, and their indications and contraindications • take a thorough history from the patient and perform a competent examination • clearly elicit features in the history and examination that predict perioperative and postoperative outcomes • order and interpret appropriate investigations • recognise the most common disorders and differentiate those amenable to operative and non-operative treatment • plan and manage appropriate surgical or non-surgical treatment, including principles of enhanced recovery after abdominal surgery • demonstrates procedural knowledge and technical skill, including the use and workings of rigid signoidoscopy, banding devices, stapling devices, energy sources, laparoscopic and endoscopic equipment and devices • communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent)
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology, of: small bowel, colon, and rectum anus and anal sphincter pelvis
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures.
	Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Haemorrhoids including ex	cternal anal skin tags	
Mid SET		 Banding of haemorrhoids Sclerotherapy Haemorrhoidectomy Management of post haemorrhoidectomy bleeding
Late SET	Stapled haemorrhoidectomyProcedures for anal stenosisDH-HAL: Doppler guided haemorrhoid artery ligation	
Fissure in Ano		
Mid SET	FissurectomyBotox injection	Internal sphincterotomy
Late SET	■ Advancement flap repair	
Perianal and Ischiorectal a	abscess	
Early SET	 Fournier's gangrene / necrotising fasciitis: See Skin Soft Tissue Module 	Surgical drainage of perianal and ischiorectal abscessAppropriate use of drains
Anal fistula		
Mid SET		Anal fistulotomyUse of seton drains
Late SET	 Surgery for complex or high fistula Advancement flap repair LIFT procedure Fibrin glue Fistula plugs 	

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	TECHNICAL EXPERTISE		
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Ano-rectal incontinence		•	
Mid SET	 Surgical techniques for anal incontinence: anterior anal sphincter repair Sacral nerve stimulation 	■ Stoma formation (open and laparoscopic)	
Rectal prolapse			
Late SET	Laparoscopic resection/rectopexyAbdominal resection/rectopexyPerineal approaches		
Pruritus ani			
Colorectal polyps			
Mid SET	 Endoscopic tattoo Transanal local excision Total proctocolectomy and ileal pouch anal anastomosis Laparoscopic bowel resection Minimally invasive transanal 	 Colonoscopy and polypectomy Open colectomy, anterior resection 	
Late SET	Transanal endoscopic microsurgeryAdvanced colonoscopic polypectomy		
Colorectal cancer			
Mid SET	Colonic stentingLaparoscopic colectomy	 Colonoscopy Colectomy Right hemicolectomy High anterior resection Ileostomy and colostomy (end and loop) and revers Hartmann's procedure 	
Late SET	 Ultralow anterior resection +/- colonic pouch Abdominoperineal resection Coloanal anastomosis 		
Diverticula			
Mid SET	 Laparoscopic bowel resection 	ColonoscopyAnterior resectionHartmann's procedure	
Late SET	 Restoration of continuity after Hartmann's procedure 		
Ulcerative colitis			
Mid SET		 Colonoscopy, including surveillance biopsies 	
Late SET	 Total proctocolectomy and ileal pouch anal anastomosis Recognition and management of ileo-anal pouch 	■ Emergency subtotal colectomy and ileostomy	
Crohn's disease	complications		
Mid SET	Laparoscopic bowel resection	 Loop ileostomy Small and large bowel resection Surgical drainage of perianal and ischiorectal absce Use of setons Use of drains 	
Late SET	 Surgery for complex fistula in Crohn's Strictureoplasty Panproctocolectomy and ileostomy 	■ Emergency subtotal colectomy and ileostomy	

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	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Colitis/ Proctocolitis / Procti radiation ischaemic bacterial, including pseudo parasitic other, e.g. microscopic coli	membranous colitis	
Late SET	Topical formalin applicationArgon beam coagulation therapy	 Resection (Hartmann's procedure; total colectomy and end ileostomy)
Carcinoma anus/ anal warts	/ perianal malignancies, including Paget's disease	
Mid SET	Inguinal node dissectionPap smearHigh resolution anoscopy	BiopsyLocal excision
Late SET	 Abdomino-perineal resection 	
Emergency conditions haemorrhage perforation fistula both internal and ex ischaemia trauma and foreign bodies complications of surgery complications of colonosco anastomotic dehiscence		
Early SET		■ Diagnostic laparoscopy / laparotomy
Mid SET	■ On table lavage	 On table gastroscopy and colonoscopy Colonic resection Colostomy and ileostomy Repair of perforation Foreign body removal
Large bowel obstruction/vol	vulus/pseudo-obstruction	
Early SET		 Placement of rectal tube
Mid SET	■ On table lavage	 Resection Anastomosis Colostomy formation Colonoscopic decompression of pseudo obstruction / volvulus
Constipation / obstructed de	efecation/ megacolon	
Mid SET	Appendicostomy	ColonoscopyColectomy and ileo-rectal anastomosis
Stoma (ileostomy/ colostom	y)	
Mid SET		■ Formation and closure (open and laparoscopic)
Late SET	Parastomal hernia repairStoma revision	
Irritable bowel syndrome Non-surgical/non-specific at	odominal pain	
Mid SET		■ Colonoscopy

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MODULE TITLE:	EMERGENCY (excluding Trauma and Emergencies defined by other subspecialties)	
Module Rationale and Objectives	By its very nature, an emergency situation requires decisive decision-making and effective timing of any surgice intervention. This module addresses issues that need to be considered in both decision-making and surgice management. The trainee should have expertise in all aspects of the management of General Surgery emergency conditions. The graduating trainee will be able to: describe common acute surgical pathologies of the abdomen, head and neck, chest, and limbs identify and recognise the symptoms and signs of these conditions efficiently and effectively examine the patient describe and select appropriate diagnostic testing order and interpret appropriate imaging investigations formulate a differential diagnosis based on investigative findings identify appropriate treatment options, and their indications and contraindications safely and effectively perform appropriate surgical procedures communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent) appreciate the role of other disciplines in emergency care and team-based management	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology, of: the abdominal cavity and its contents head and neck the thorax and its contents the upper and lower limbs	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
ABDOMINAL Acute Appendicitis		
Early SET		Open appendicectomyLaparoscopic appendectomy
Mid SET		Drainage of appendiceal abscessConversion to hemicolectomy
	gies, pancreatitis, cholangitis and gastro intestinal bactal, Small Bowel, and Transplantation Modules	bleeding
Abdominal haemorrhage abdominal wall intra-peritoneal retroperitoneal		
Mid SET	 Drainage and control of retroperitoneal haemorrhage 	 Extra-peritoneal drainage of collection
Spontaneous bacterial perito	onitis	
Mid SET	 Removal and insertion of peritoneal dialysis catheter 	Laparotomy
UROLOGICAL Urinary retention and urinar	y tract infection	
Early SET		CatheterisationSuprapubic catheterisation
Phimosis and paraphimosis		
Early SET		 Perform non-operative reduction of paraphimosis
Mid SET		Circumcisionelective



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Epididymo-orchitis		
Mid SET		Incision and drainage of scrotal abscess
Testicular torsion		
Early SET		 Scrotal exploration of testes and orchidopexy Trans-scrotal orchidectomy (where indicated)
Ureteric obstruction, includi	ng calculi and pyonephrosis	
Mid SET	Emergency ureteric stenting for infected obstructed kidney	
GYNAECOLOGY Ectopic pregnancy		
Mid SET	 Operations for ectopic pregnancy, repair of Fallopian tube 	Salpingectomy
Ovarian cysts		
Mid SET	Oophorectomy	 Ovarian cystectomy
ENT Epistaxis		
Early SET	■ Nasal packing	
SEPSIS Focal Sepsis		
Early SET		■ Drainage of an abscess
Mid SET		 Debride necrotising fasciitis: See Skin & Soft Tissue Module
		 Open drainage of abscesses of the abdominal cavity and abdominal solid organs
		 Fournier's gangrene: See Skin & Soft Tissue Module
Sepsis Syndrome See also Sepsis Module and CC	riSP Manual	
Early SET		Gain access for central line placement



MODULE TITLE:	ENDOCRINE	
Module Rationale and Objectives	The general surgeon is expected to be able to investigate, assess and manage commonly occurring diseases of the endocrine glands and to be competent in accurately identifying conditions that require surgery, and those whice are best treated by other means. They also expected to be able to recognise the need and appropriate time to refersuch patients to other professionals. The graduating trainee will be able to: • describe common surgical pathologies of thyroid, parathyroid, adrenal, pancreas, and gut endocrine organs • identify and recognise the symptoms and signs of these conditions • describe and select appropriate diagnostic testing • identify appropriate treatment options, and their indications and contraindications • recognise, assess and treat any common thyroid, parathyroid, adrenal, pancreatic endocrine and neuro-endocrine tumour conditions likely to be encountered in consultative general surgical practice • recognise which conditions to refer on to a specialised multidisciplinary service • critically evaluate the advantages and disadvantages of different investigative modalities • select appropriate investigative tools and monitoring techniques in a cost effective manner • appropriately adjust the way they communicate with patients to accommodate cultural and linguistic differences • communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent) Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology, of: • branchial arch development • regional anatomy of neck • surgical anatomy of the neck • thyroid • parathyroid • parathyroid • pancreas/neuroendocrine system	
Anatomy, Physiology, Pathology		
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Multinodular goitre, thyroidi See Head & Neck Module	tis, thyrotoxicosis, thyroglossal cyst	
Mid SET	Total ThyroidectomyAutotransplant parathyroid	HemithyroidectomyTracheostomy
Late SET	 Sternal split Re-operative thyroid surgery Sistrunk operation: See Head & Neck Module Principles of intraoperative neuromonitoring 	HemithyroidectomyTotal ThyroidectomyAutotransplant parathyroid
Thyroid tumours benign malignant		
Late SET	 Selective lateral lymph node dissection (levels II to V) Central compartment node dissection (level VI and VII) Principles of intraoperative neuromonitoring Principles of surgical management of locally advanced thyroid cancer See also multinodular goitre 	■ See also multinodular goitre
Parathyroid tumours and hyperplasia		
Mid SET	 Parathyroidectomy – open and minimally invasive (MIP) Neck exploration + frozen section including excision adenoma, 31/2 gland excision, total parathyroidectomy +/- autotransplantation 	
Late SET	Re operative parathyroid surgeryCervical thymectomy	

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SET LEVEL	TECHNICAL EXPERTISE			
	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -		
Pancreatic endocrine tumours and hyperplasia, neuro-endocrine tumours				
Mid SET	 Pancreatic tumour enucleation, distal pancreatectomy, pancreatoduodenectomy 	Bowel resection for small bowel tumours (carcinoid)Liver biopsy		
Late SET	 Non-anatomical and anatomical liver resection 			
Adrenal gland functional abr	normalities and tumours, and retro peritoneal tumou	rs		
Mid SET	 Adrenalectomy, including open and laparoscopic anterior, posterior, lateral and abdominal 			
Late SET	 Retroperitoneal lymph node dissection and resection of adrenal tumours 			

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MODULE TITLE:	ENDOSCOPY
	Gastrointestinal endoscopy, and the knowledge and skills that this entails, is an integral part of General Surgery. The skilled endoscopist, far from acting as a technician, employs endoscopy in the appropriate situation to guide clinical decisions or improve patient outcomes. The skilled and safe practice of Gastrointestinal Endoscopy, in both diagnostic and therapeutic domains, requires knowledge across a wide range of areas considered elsewhere in the General Surgery Curriculum. Such knowledge is important for safe conduct of procedures, accurate diagnosis, and correct management.
	Important areas of knowledge and skill relevant to Gastrointestinal Endoscopy include, but are not limited to gastrointestinal anatomy/physiology, pharmacology of sedative medication, gut embryology, gastrointestinal disease including malignant, inflammatory and functional disorders, emergency gastrointestinal presentations, nutrition, audit and quality assurance, and public health issues.
Module Rationale and	By graduation, it is expected that the trainee will be able to: Describe the structure and function of the endoscope and ancillary equipment
Objectives	 Safely administer conscious sedation
	 Understand and apply principles of electrophysiology as they apply to therapeutic endoscopy
	 Understand the principles of anti-sepsis as they apply to GI endoscopy
	 Describe the indications and contra-indications for Gastrointestinal Endoscopy
	 Perform safe insertion for upper and lower GI endoscopy, including knowledge of troubleshooting problems with insertion
	 Make accurate diagnosis and demonstrate good lesion recognition
	 Understand correct therapeutic techniques and begin to employ these safely and accurately
	 Understand and participate in quality improvement/assurance processes as they apply to GI endoscopy Demonstrate positive traits in professionalism and communication in the endoscopy suite

CET LEVEL	TECHNICAL EXPERTISE	
SET LEVEL	SKILL	
PERI-PROCEDURAL Structure and Function of	f the Endoscope and Ancillary Equipment	
Early - Mid SET	 Prepare an endoscopy video processor and endoscope for use without assistance Develop an effective stance and hand grip to optimise use of controls with the left hand Identify the site of a blocked channel and correct the blockage Troubleshoot basic equipment problems during procedure 	
Sedation		
Early - Mid SET	 Undertake a pre-procedural assessment with regards to risks associated with conscious sedation Delivers skilled titration of sedative medication and reversal agents when sedation is deeper than expected 	
Principles of Electrosurge	ery	
Early - Mid SET	 Deploy a diathermy unit checking for safety and electrical integrity Select appropriate settings on an electrosurgical unit Deploy and use a snare in a manner that minimises risk to normal surrounding tissues 	
Infection Control and Saf	ety	
Early - Mid SET	Appropriate handling of the scope	
GASTROSCOPY Preparation for Gastrosco	ору	
Early - Mid SET	 Assess risk of intra- and post- procedure pulmonary aspiration in an individual patient Gains consent for the procedure in an appropriate process 	
Gastroscopy Insertion		
Early - Mid SET	 Successful oesophageal intubation Key performance indicator > 95%, done under constant direct vision Correctly identify anatomic landmarks, and steer tip accurately towards direction of lumen Complete insertion to second part of duodenum is achieved in majority of cases 	
Gastroscopy Withdrawal		
Early - Mid SET	 Uses tip control to optimise mucosal view in duodenum, minimise blind areas and visualise ampulla Uses distension and retroflexion in stomach to assess areas of mucosa poorly seen in forward viewing position Key performance indicator > 95% Inspect the oesophagus on withdrawal in a manner suitable to identify mucosal pathology Makes an assessment of the likely cause of pathology based on close examination of a mucosal surface 	

ENDOSCOPY Page 1 of 2



SET LEVEL	TECHNICAL EXPERTISE
SET LEVEL	SKILL
Therapeutic Gastroscopy	
Late SET	 Use tip control and positioning of shaft to optimise access to an area of interest Assess the risk of re-bleeding of a patient with peptic ulcer using endoscopic examination and implement an appropriate management plan Demonstrate use of available endoscopic haemostatic techniques to treat or prevent bleeding from submucosal vessels
COLONOSCOPY Preparation for Colonoscopy	
Early - Mid SET	Describe preparation for colonoscopy to a patient and prescribe appropriatelyArranges additional preparation when required
Colonoscopy Insertion	
Late SET	 Maintains a luminal view sufficient to allow safe insertion Correctly identifies the direction of lumen and anatomic landmarks Demonstrate a strategy for passing an acute angle by angulation, withdrawal and timed deflection of the tip, including judicious use of "slide by" manoeuvres Demonstrates use of water injection, minimal insufflation and adequate shaft lubrication Aspirates distended loops and straighten scope shaft, while steering into the lumen to facilitate scope advancement Employs a technique to achieve successful ileal intubation
Colonoscopy Withdrawal	
Late SET	 Use tip control to optimise mucosal view Use washing, position change and aspiration appropriately Utilises double flexure pass when appropriate
Colonoscopy Polypectomy	
Late SET	 Uses tip control and positioning of shaft to optimise working area and view of polyp Inject fluid accurately to the submucosal space in a manner that increases the ease and safety of polypectomy Examines polypectomy defect closely for completeness and risk of perforation Uses adjunctive equipment if necessary to achieve haemostasis and retrieve tissue Deploys endoscopic clips if required to control bleeding or close mucosal defects Performs physical examination if appropriate to detect signs of perforation Retrieve a resected specimen for pathology processing Key performance Indicator: 90% of resected polyps retrieved

ENDOSCOPY Page 2 of 2



MODULE TITLE:	HEAD & NECK	
Module Rationale and Objectives	General surgeons need to have a thorough knowledge of infections, tumours and lesions of the head and neck and be able to recognise and treat compromise of the upper airway. Trainees are also required to have a high level of knowledge of investigations, differential diagnosis, potential risks and/or complications and appropriate management strategies. The graduating trainee will be able to: describe common surgical pathologies of deep neck space infections, congenital cysts and sinuses of the head and neck, metabolic and neoplastic conditions of salivary glands, and primary and secondary malignancies presenting in the head and neck identify and recognise the symptoms and signs of these conditions describe and select appropriate diagnostic testing identify appropriate treatment options, and their indications and contraindications recognise the symptoms of, accurately diagnose, and manage common problems in the head and neck select appropriate investigative tools adapt their skill in the context of each patient and each procedure identify and manage risk recognise the need to refer patients to other professionals, including multidisciplinary teams communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent)	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology, of: the head (extracranial) the neck (upper aero-digestive tract and soft tissues)	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Upper aero-digestive tract r	neoplasia	
Early SET		Cervical lymph node biopsy
Mid SET		Open feeding gastrostomy or PEGTracheostomy
Salivary gland pathology tumour		
Mid SET	Excision of submandibular glandParotidectomy	
Salivary gland pathology Infections Inflammatory disease Calculi		
Mid SET	Excision of submandibular glandSubmandibular dochotomy and stone extraction	 Drainage of acute suppuration
Upper airway foreign body/	occlusion/trauma	
Mid SET	Extracting foreign body	Emergency tracheotomyCricothyroidotomy
Cervical infections lymphad	enitis/abscess	
Mid SET		Incision and drainage of cervical abscessEmergency tracheotomy
Lumps in the neck carotid body tumour (See a branchial cyst/sinus thyroglossal cyst (See also pharyngeal pouch		
Mid SET	 Excision of branchial cyst Excision of thyroglossal cyst/ fistula / Sistrunk procedure 	

HEAD & NECK Page 1 of 1



MODULE TITLE: SEPSIS & THE CRITICALLY ILL OR COMPROMISED PATIENT Sepsis and other critical conditions require informed and decisive action on the part of the surgeon. This module identifies the key areas in which trainees are expected to have expertise in order to be able to minimise infection risks and consequences in critically ill or compromised patients and to respond promptly and appropriately as the need for assessment and management of sepsis in such patients arises. The graduating trainee will be able to: Pathology of sepsis: describe common surgical pathologies of sepsis in specific organs or regions describe infectious pathologies likely to be associated with surgically treated diseases describe infectious pathologies associated with medically complex, malnourished and immune suppressed patients Prophylaxis of sepsis: display well informed, evidence based team leadership in prophylaxis and management of sepsis in critically ill or compromised patients anticipate and aim to prevent the onset of sepsis and sepsis related complications in surgical patients describe mechanisms for limiting the development and spread of infectious diseases, especially multiresistant organisms, among critically ill and compromised surgical patients describe evidence-based prophylaxis against development of peri-surgical sepsis Recognition and diagnosis of sepsis and sepsis syndromes: Module Rationale and apply the CCrISP principles to identify and recognise the symptoms and signs of these conditions **Objectives** describe and select appropriate diagnostic testing select appropriate investigative tools and monitoring techniques Management planning and treatment: identify appropriate treatment options, and their indications and contraindications determine the appropriate priorities of care and level of care for patients affected by sepsis demonstrate awareness of the basic pharmacology and principles of antibiotic based therapeutics effectively manage septic complications of operative procedures and the underlying disease process identify the likely causative factor(s) of a patient's critical illness and implement management accordingly prioritise, initiate and coordinate the timely management of critically ill patients accurately identify the risks, benefits and mechanisms of action of various treatment modalities and interventions **Ethics and Professional Communications:** understand the importance of a multidisciplinary approach to the management of critically ill patients recognise the importance of effective communication with other professionals and recognise the need for timely referral and for timely response to requests for surgical review and surgical treatment communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent) Trainees should have thorough knowledge of the, anatomy, microbiology, physiology, and pathology, of: organ-specific sepsis Anatomy, Physiology, Systemic Inflammatory Response Syndrome (SIRS)/Multiple Organ Dysfunction Syndrome (MODS) **Pathology** system specific dysfunction (e.g. renal impairment) co-morbidities that may alter management and/or adversely affect outcome Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at **Definitions** least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.

SET LEVEL	TECHNICAL EXPERTISE		
	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Critically ill surgical patient e.g.:			
 severe pancreatitis, anastomotic leak 			
strangulated small bowel / ischaemic colon / perforated small bowel / colon (see also Emergency Surgery Module)			
and the second of the second o			

 massive haemorrhage (see also Emergency Surgery Module) Severe cholangitis (See also Upper GI & HPB - Hepatic, Pancreatic & Biliary Module) 		
Early SET	 Cricothyroidotomy/ tracheostomy 	 Establish and maintain emergency airway Needle thoracostomy / intercostal chest drain Establish definitive emergency vascular access - central and peripheral
Late SET	 Understand surgical strategies in the critically ill patient 	

Gangrene/necrotising fasciitis

See Skin & Soft Tissue Module



SET LEVEL		TECHNICAL EXPERTISE	
	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Tetanus			
Early SET	■ Wound debridement		
Subphrenic/pelvic/intra-abd	ominal abscess		
Mid SET		 Transrectal drainage Laparotomy/ laparostomy/minimally invasive techniques for drainage of complex abscesses 	
Psoas abscess			
Mid SET	■ Trans/ Retroperitoneal drainage		
Intra-abdominal sepsis/perit See also Abdominal Wall Module See also above: Subphrenic/pel			
Mid SET	■ Laparostomy	 Laparotomy for sepsis control 	
The immuno- suppressed pat See Transplantation Module	cient		
Late SET	 Understand surgical strategies in the critically ill patient 		
HIV/AIDS and other atypical			
See also above: The immuno-su Mid SET	ppressea patient	■ Insertion of central venous access with management	
The splenectomised patient See also above: The immuno-su	uppressed patient		
Mid SET	■ Laparoscopic elective splenectomy	 Open elective splenectomy See also Upper GI/HPB Module 	
Post transplantation patients See Transplantation Module			
Nutritional support			
Mid SET		 Feeding gastrostomy/ jejunostomy (open, endoscopic, and laparoscopic) Vascular access for nutrition (including surgical and radiological implantable and tunnelled devices) 	
Other medical system diseas	е		
Acute pain control			
Patients on specific medications: Anticoagulant, Immunomodulators, Oncological agents			



MODULE TITLE:	SKIN & SOFT TISSUE	
Module Rationale and Objectives	Skin cancer is increasing in prevalence, and if undiagnosed or untreated can be lethal. Infections of the skin and soft tissue require early identification and prompt management. General surgery trainees are required to become competent in accurately identifying conditions that require surgery, and those which are best treated by other means. The graduating trainee will be able to: describe common surgical pathologies of benign and malignant skin lesions, and the various types of skin and soft tissue infections. identify and recognise the symptoms and signs of these conditions describe and select appropriate diagnostic testing identify appropriate treatment options, and their indications and contraindications diagnoses and treat commonly encountered conditions of the skin and soft tissues select appropriate investigative tools adapt their skill in the context of each patient and each procedure identify and manage risk recognise the need to refer patients to other professionals communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent)	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology and pathology of the skin and subcutaneous tissues. In addition, the trainee should know: regional surgical anatomy of body surfaces histology of the skin and appendages principles of wound healing and cosmesis	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Skin cancer basal cell carcinoma squamous cell carcinoma intra-epithelial carcinoma Merkel cell tumour Melanoma (See also Surgical	Oncology Module)	
Early SET		 Excision of skin cancer and wound closure using direct suturing
Mid SET	 Block dissection of regional lymph nodes 	 Excision of skin cancer and wound closure using: cutaneous flaps full-thickness/split skin grafts Sentinel lymph node biopsy
 Benign skin and subcutaneous Nevus Solar keratosis Papilloma/wart Seborrheic keratosis Lipoma Sebaceous cyst Ganglion Keloid and hypertrophic sca 		
Early SET		Simple excision of lesionDiathermy ablation/curettage (warts)
Ingrown toenail		
Early SET		Nail avulsionWedge resection of nail
Mid SET		■ Zadek's operation

SKIN & SOFT TISSUE Page 1 of 2



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Cellulitis Soft tissue abscess Wound infection		
Early SET		Incision and drainage of abscessWound debridement
Synergistic soft tissue infe Fournier's gangrene gas gangrene necrotising fasciitis, etc.	ections e.g.:	
Mid SET	Reconstructive techniques	Extensive wound debridement/ amputationDefunctioning colostomy (as indicated)
Late SET	 Advanced reconstructive techniques 	
Hidradenitis suppurativa		
Early SET		Incision and drainage
Mid SET	 Reconstructive techniques where indicated 	■ Excision
Hand Infections		
Mid SET	 Incision and drainage of hand and finger spaces 	
Chronic leg ulcer/pressure See also Vascular Module	eulcers	
Early SET		Wound debridementSplit skin grafting
Late SET	■ Flap repair (as indicated)	
High risk foot (diabetic/ne See also Vascular Module	europathic)	
Early SET		Incision and drainage of suppuration
Mid SET	■ Major limb amputations	Wound debridementLocal amputations
Pilonidal sinus/abscess		
Early SET		Incision and drainage of abscessExcision and marsupialisation
Mid SET	 Surgical management of Pilonidal sinus 	• Excision and primary closure with or without a flap
Hyperhidrosis		
Mid SET	Endoscopic thoracic sympathectomyLumbar sympathectomy	
Carpal tunnel syndrome		
Mid SET		■ Carpal tunnel release
Other peripheral nerve ent	trapments	
Mid SET	Ulnar neurolysisOther neurolysis	
Late SET	Exploration of Guyon's canalDecompressive surgery for pronator syndrome	
Peripheral nerve injuries		
Mid SET	 Acute primary nerve repair 	

SKIN & SOFT TISSUE Page 2 of 2



MODULE TITLE:	SMALL BOWEL	
Module Rationale and Objectives	A general surgeon is required to have a thorough understanding of normal anatomy and physiology, as well as pathophysiology, investigations, differential diagnosis and surgical and non-surgical management of small intestinal disorders. It is important that general surgeons maintain a current understanding of the most appropriate time and manner of intervention. The graduating trainee will be able to: Describe normal & abnormal anatomy of duodenum, jejunum, and ileum and their blood supply and lymphatic drainage describe common surgical pathologies of duodenum, jejunum, and ileum identify and recognise the symptoms and signs of these conditions describe and select appropriate diagnostic testing identify appropriate treatment options, and their indications and contraindications diagnose and manage pathological conditions that pertain to the duodenum, jejunum, and ileum including referral to other specialists where indicated select appropriate investigative tools adapt their skill in the context of each patient and each procedure identify and manage risk recognise the need to refer patients to other professionals convey bad news to patients in a way that conveys sensitivity to the patient's social, cultural and psychological needs communicate information to patients (and their family) about procedures, outcomes, and risks associated	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology of: • peritoneal cavity • small bowel – digestion and absorption; immune and endocrine functions; motility	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Small bowel obstruction (SB	0)	
Mid SET	■ Laparoscopy for SBO	LaparotomyDivision of adhesionsBowel resection/ bypass
Intussusception		
Mid SET		 Small bowel resection
"Foreign bodies" in the GI tr	ract	
Mid SET		Enterotomy and closure
Duodenal adenoma and carc	inoma	
Late SET	Endoscopic duodenal stentingSurgical resection	
Duodenal diverticula		
Mid SET	■ Duodenal diverticulectomy	
Duodenal obstruction		
Mid SET		Open gastrojejunostomyDuodeno-jejunostomy
Late SET	■ Laparoscopic gastrojejunostomy	

SMALL BOWEL Page 1 of 2



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Small bowel ischaemia		
acutechronicSee also Vascular Module		
Mid SET	RevascularisationEmbolectomy	■ Resection
Small bowel neoplasia/tumo	ours	
Mid SET		Diagnostic laparoscopyBowel resection/ bypassMesenteric nodal resection
Late SET	Laparoscopic therapy	
Small bowel bleeding		
Mid SET		■ Bowel resection
Late SET	■ On table enteroscopy	
Meckel's diverticulum		
Mid SET		Meckel's diverticulectomySmall bowel resection
Late SET	 Laparoscopic Meckel's diverticulectomy 	
Small bowel fistula		
Mid SET	 Management of open abdomen 	Small bowel resectionDefunctioning Jenunostomy/ Ileostomy
Inflammatory conditions of See also Colorectal Module	the small bowel	
Mid SET	 Laparoscopic ileocolic resection 	Small bowel resectionIleocolic resection
Late SET	Laparoscopic assisted small bowel resectionStrictureoplasty	
Infectious disorders of the s	small bowel	
Mid SET		Small bowel resection
Diverticulosis of the small in	ntestine	
Mid SET		Small bowel resectionDiverticulectomy
Intestinal failure (including See also Sepsis Module (Nutrition	•	
Mid SET		 Insertion of a tunnelled central venous line for long- term TPN
Malabsorption syndromes		
Radiation enteritis		
Small bowel trauma See Trauma Module		
Other small bowel problems	including functional bowel disease and slow transit	

SMALL BOWEL Page 2 of 2



MODULE TITLE:	SURGICAL ONCOLOGY	
Module Rationale and Objectives	A general surgeon is required to have a thorough understanding of surgical oncology. It is important that general surgeons maintain a current understanding of the most appropriate timing and manner of intervention. The graduating trainee will be able to: describe common surgical pathologies of melanoma and soft tissue sarcoma identify and recognise the symptoms and signs of these conditions describe and select appropriate diagnostic testing identify appropriate treatment options, and their indications and contraindications diagnose and manage pathological conditions that pertain to surgical oncology including referral to other specialists where indicated select appropriate investigative tools adapt their skill in the context of each patient and each procedure identify and manage risk recognise the need to refer patients to other professionals communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent)	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the general principles of various aspects of cancer management, including: cancer screening cancer diagnosis cancer staging multidisciplinary care adjuvant therapies cancer follow-up palliative care	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures. Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	procedure.			
	TEC	TECHNICAL EXPERTISE		
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -		
Fundamentals of cance	er biology			
Principles of screening	for malignancy			
Familial cancer syndro	mes including:			
■ FAP				
■ HNPCC ■ BRCA1,2				
- bkca i,2 • Li Fraumeni				
Neurofibromatosis				
 MEN syndrome 				
Carcinoma including b	reast, colon, oesophageal, gastric, pancreatic, skir	n, thyroid		
See also individual Modul	les - tumours			
Mid SET	 Regional lymphadenectomy 	■ Regional nodes		
Late SET	■ Define adequate oncologic resection			
Melanoma				
Mid SET	 Regional node dissection 	Appropriate resection +/- skin graftingSentinel node biopsy		
Late SET	■ Isolated limb infusion/perfusion			

SURGICAL ONCOLOGY Page 1 of 2



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Sarcoma		
Late SET	Limb sacrifice and reconstruction	
Sarcoma – Retroperitoneal See also Endocrine Module - A		
Early SET	Radical resection of retroperitoneumReconstruction	
Metastatic disease of unkno	own primary	
Mid SET		Open biopsy
Lymphatic malignancies		
Early SET		Lymph node excision and specimen handling
Mid SET	Laparoscopic biopsy	
Vascular access See also Vascular Module		
Early SET		Removal of above devices
Mid SET		 Insertion of subcutaneous venous access port/ Hickman catheter (open and percutaneous) Management of complications
Malignant ascites/pleural e Peritoneal malignancy Pseudomyxoma Mesothelioma	effusions	
Mid SET	Denver shunt	
Principles of adjuvant thera See also individual Modules	apy for malignant disease	
Principles of follow-up for r See also individual Modules	malignant disease	
Multidisciplinary care See also individual Modules		
Palliative care and pain ma	nagement	

SURGICAL ONCOLOGY Page 2 of 2



MODULE TITLE:	TRANSPLANTATION		
	A general surgeon is expected to have an understanding of the anatomy, physiology, pathophysiology, investigations and differential diagnosis of organ failure. The surgeon should maintain a current understanding of indications for the provision of and the procedures of organ transplantation to overcome organ failure (in particular, liver, kidney, pancreas and small bowel). The general surgeon should be aware of the implications for management of patients with organ failure presenting with general surgical conditions. The general surgeon should be capable of participating in multi-organ donation. The general surgeon should also be prepared for and capable of caring for the characteristic complications of organ transplantation that includes serious sepsis and malignancy.		
	The graduating trainee will be able to:		
	 describe the causes, risk factors for, and effects of organ failure 		
Module Rationale and Objectives	 identify and recognise the symptoms and signs of the diseases that lead to organ failure and of the development of organ failure 		
	 describe and select appropriate investigations, diagnostic strategies and describe the diagnostic tests that may be required 		
	 identify appropriate treatment options, and their indications and contraindications 		
	 diagnose and manage pathological conditions that lead to liver failure, renal failure, diabetes and intestinal failure and be able to provide management, advice and referral for transplantation where indicated advise on the appropriate investigative procedures 		
	 remain current with respect to the care of the patient with incipient or established organ failure 		
	 refer patient for consultation with appropriate other professions 		
	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology of the kidney liver, small bowel and pancreas.		
	Trainees should know the pathological processes that lead to:		
Anatomy, Physiology,	 liver failure 		
Pathology	 renal failure 		
	 intestinal failure 		
	 diabetes mellitus 		
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures.		
	Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.		

	TECHNICAL E	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Renal failure acute chronic			
Early SET	 Placement of venous dialysis catheter 		
Mid SET	 Placement of peritoneal dialysis catheter 		
Late SET Acute rejection follow	 Multi-organ donation Living donor Kidney donation: laparoscopic open Renal transplantation AV fistula and management of complications; See also Vascular Module 		
Mid SET	Renal biopsy and complicationsTransplant nephrectomy		
Tertiary hyperpara-thy See also Endocrine Modu	yroidism		
Mid SET	 Parathyroidectomy associated with renal failure 		
Late SET	 Outline: success rate follow-up of parathyroidectomy in renal failure procedure of parathyroid transplantation 		

TRANSPLANTATION Page 1 of 2



	TECHNICA	TECHNICAL EXPERTISE		
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -		
Brain death/Donation	n after cardiac death (DCD)			
Late SET	 Operation of multi-organ donation 			
Malignancy in transpl	lantation			
Late SET	 Identify procedures that could require a referral for specialist support 			
Liver failure acute chronic				
Early SET		 Abdominal paracentesis 		
Mid SET	 Upper GI endoscopy and interventions for bleeding 	 Laparoscopic assessment of the liver, including ultrasound 		
Late SET	Interventions for portal hypertensionSurgical procedure of liver transplantation			
Pancreatic endocrine	failure			
Late SET	Multi-organ donation			
Short bowel syndrom See also Small Bowel M				
Mid SET	■ Insertion of a Hickman line for long-term TPN			
Late SET	Multi-organ donation			

TRANSPLANTATION Page 2 of 2



MODULE TITLE:	TRAUMA		
Module Rationale and Objectives	from a competent and confident practitioner. It is therefore imperative that during training all trainees have sufficient knowledge and experience to be able to fulfil this role. The graduating trainee will be able to: understand the mechanisms of injury and the patterns of injury that may result from both blunt and penetrating trauma, describe common surgical pathologies that will result from trauma describe the pathophysiology of shock, acute brain injury, respiratory failure, sepsis, renal failure, multi organ failure, and burns identify appropriate treatment options, and their indications and contraindications participate in a trauma team including team leader role safely and effectively assess and resuscitate the injured patient implement the principles of EMST/ATLS, CCrISP, and DSTC effectively manage the care of patients with trauma, including multiple system trauma identify and manage risk in an environment of complexity and uncertainty appropriately adjust the way they communicate with patients to accommodate cultural and linguistic differences work in collaboration with members of an interdisciplinary team where appropriate recognise the need to refer patients to other professionals understand the need for early initiation of rehabilitation effectively use resources to balance patient care and systemic demands in acute circumstances, the consenting process may require conforming to state legislation communication and collaboration with other surgical specialties clear understanding of the potential disaster, humanitarian and military responsibilities of general surgeons disaster planning epidemiology and prevention trauma quality improvement, benchmarking and audit trauma systems and resources allocation		
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology, and pathology, of: • head and neck • spine • limbs • thorax • abdomen • pelvis		
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures.		
	Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.		

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Initial trauma managemen	t Resuscitative phase - ED	•
Early SET	 Basic airway management techniques DPL principles FAST Principles of damage control laparotomy Laparostomy 	 Vascular access Central venous access Intra osseous puncture and access Intercostal catheter Splinting of extremities Control of external haemorrhage Pelvic binding (stabilisation) Cricothyroidotomy Nasopharyngeal packing Clear cervical spine appropriately
Mid SET	■ Emergency thoracotomy	FASTDamage control laparotomyLaparostomy
Late SET	Retroperitoneal exposure (great vessels)	■ Emergency thoracotomy

TRAUMA Page 1 of 3



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Ongoing ICU managemen	nt Definitive care phase	
Early SET		 Compartment pressure measurement
Mid SET	■ Enteral feeding access	 Laparostomy (open abdomen) and its management Tracheo(s)tomy Limb fasciotomy
Late SET		■ Staged abdominal closure
Daily ward management	- Definitive care phase ward and rehabilitation	
Early SET		■ Principles of wound/drain care
Mid SET		■ Tracheo(s)tomy care
Skin/Soft Tissues		
Early SET	■ Surgical airway	 Wound exploration Wound debridement Foreign body removal (use of image intensifier) Wound closure or open management based on the nature of the soft tissue injury Split skin grafting VACC therapy applications and limitations
Mid SET	 Wound management in specific areas 	EscharotomyLocal flap coverage
Blast injuries		
Early SET		Lavage and debride contaminated woundsIntercostal catheters
Mid SET	Attend to life threatening injuries	 Surgical airway Thoracotomy Emergency laparotomy Haemorrhage control Escharotomy in burns
Head/Brain		
Early SET	■ Extra dural drainage	Control of severe bleeding from scalp lacerationsNasal packing
Mid SET	■ Control of severe maxilla-facial bleeding	 Definitive wound management of head/face/orbit wounds
Late SET	For rural practice: craniotomy and craniectomy	Woulius
Face/Neck		
Early SET	■ Surgical airway	
Mid SET	 Access and vascular control in Zone I and III Repair of carotid injury Repair of oesophageal injury Surgical exploration of Zone II 	■ Surgical airway
Spine		
Early SET		Application of spine immobilisation devices
Mid SET	Application of tongs	
Chest		
Early SET	■ ED resuscitative thoracotomy	■ Chest tube insertion

TRAUMA Page 2 of 3

	TECHNICAL EXPERTISE		
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -	
Chest (continued)			
Mid SET	 Diaphragmatic repair from the abdomen Pericardial window (extra-peritoneal vs. intraperitoneal) Diaphragmatic repair from chest 		
Late SET	 Vascular control in the chest Periclavicular approaches for the thoracic outlet Repair simple cardiac wounds Thoracoscopy, thoracotomy VATS 	Diaphragmatic repair from the abdomen	
Abdomen			
Early SET		 Local wound exploration 	
Mid SET Late SET	 Exploration of the retroperitoneum – left and right medial visceral rotation manoeuvers Control of major vessels Major abdominal vascular repair Vascular isolation of the liver Splenic and kidney salvage techniques Exploration of the retroperitoneum – left and right medial visceral rotation manoeuvers 	 Damage control laparotomy Temporary abdominal closure Trauma laparoscopy Control of the environment, preparation and execution Systematic approach Haemorrhage and contamination control Anatomical liver packing Pringle manoeuvre Splenectomy Repair resection hollow viscus injury 	
Pelvis			
Early SET		 Application of pelvic binder 	
Mid SET		Trauma laparotomy	
Late SET	■ Pre-peritoneal packing for pelvic traumas	Pelvic packing	
Extremities			
Early SET		 Realignment Splinting Washout and debridement of open wounds Compartment pressure measurement 	
Mid SET	 Vascular exploration and control on extremities 	AmputationsFasciotomy	

TRAUMA Page 3 of 3



MODULE TITLE:	UPPER GI & HPB - BARIATRIC/OBESE PATIENTS	
	A general surgeon is required to have a thorough understanding of normal anatomy and physiology, as well a pathophysiology, investigations, differential diagnosis and surgical and non-surgical management of abdomina disorders. It is important that general surgeons maintain a current understanding of the most appropriate time an manner of intervention. It is also important that they keep abreast of the most current developments in investigative and surgical procedures. The graduating trainee will be able to:	
	 describe common surgical pathologies of the foregut and associated structures 	
	 identify and recognise the symptoms and signs of these conditions 	
Module Rationale and	 describe and select appropriate diagnostic testing 	
Objectives	 identify appropriate treatment options, and their indications and contraindications 	
	 diagnose and manage pathological conditions that pertain to the foregut 	
	 effectively manages patients 	
	 maintains skills and learns new skills 	
	 analyses their own clinical performance for consistent improvement 	
	 recognise the need to refer patients to other professionals 	
	 communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery for the morbidly obese patient in ways that encourage their participation in informed decision making (consent) 	
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology and pathology, of: • foregut	
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures.	
	Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.	

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
MORBID OBESITY		
Early SET		Gastric band deflation
Mid SET		 Removal of Gastric Band (open or laparoscopic) in emergency situations
		 Management of internal hernia after gastric bypass in emergency situations
Late SET	 Options for managing complications 	



MODULE TITLE:	UPPER GI & HPB - HEPATIC, PANCREATIC & BILIARY		
	A general surgeon is required to have a thorough understanding of normal anatomy and physiology, as well a pathophysiology, investigations, differential diagnosis and surgical and non-surgical management of abdomin disorders. It is important that general surgeons maintain a current understanding of the most appropriate time ar manner of intervention. It is also important that they keep abreast of the most current developments in investigative and surgical procedures. The graduating trainee will be able to: describe common surgical pathologies of the foregut and associated structures		
Module Rationale and	 identify and recognise the symptoms and signs of these conditions describe and select appropriate diagnostic testing 		
Objectives	 identify appropriate treatment options, and their indications and contraindications 		
	 diagnose and manage pathological conditions that pertain to the foregut 		
	 effectively manages patients 		
	 maintains skills and learns new skills 		
	 analyses their own clinical performance for consistent improvement 		
	 recognise the need to refer patients to other professionals 		
	 communicate information to patients (and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed decision making (consent) 		
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology and pathology, of: • foregut		
Definitions	Operative Management - Knows: Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant operative techniques involved in performing the procedure; trainees are encouraged to at least observe and preferably assist in these procedures.		
	Operative Management - Does: In addition to the above, trainees must be competent at performing the procedure.		

	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
HEPATIC Primary liver malignancy • HCC • cholangioca • others		
Mid SET		Staging Laparoscopy
Late SET	 Liver resection in patient with cirrhosis Intra Operative US Laparoscopic Liver Biopsy in Cirrhosis 	
Liver metastases		
Mid SET		Staging laparoscopyStaging at laparotomy
Late SET	 Principles of hepatic mobilisation, localisation of the tumour and dissection of the liver Intra Operative US 	■ Laparoscopic Liver Biopsy
Incidental liver lesions adenomaFNHhaemangiomanon-parasitic cysts		
Mid SET		Evaluation at open operationLaparoscopic liver biopsy
Late SET	 Principles of hepatic mobilisation, localisation of the tumour and dissection of the liver Intra Operative US 	
Liver infections abscess pyogenic parasitic others		



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Portal hypertension		
Early SET	 Operative strategies for patient with portal hypertension 	
Mid SET	 Management of variceal bleeding 	
Ascites		
Early SET	Impact of ascites on abdominal surgery	
Mid SET	 Operative management of patient with ascites 	
Hepatic trauma See also Trauma Module		
Mid SET	 Understand the principles of use of various haemastatic agents Understand the role of low CVP anaesthesia in liver injuries 	 Laparotomy Assessment of severity of injury Methods to obtain haemostasis including packing a liver injury for referral/transfer
Hepatic Failure (Acute & C	Chronic)	
Mid SET	 Methods to achieve haemostasis 	
BILIARY Gallstone disease		
Mid SET		 Cholecystectomy for uncomplicated and complicated disease, including performance of operative cholangiography Open exploration of the common bile duct Laparoscopic transcystic exploration of the common bile duct
Late SET	 Laparoscopic exploration of the common bile duct 	 Open cholecystectomy including techniques for the "difficult" gall bladder
Gall bladder polyp		
Mid SET		 Laparoscopic cholecystectomy
Late SET	■ Role of laparoscopic IOUS	
Gallbladder carcinoma/ch	olangiocarcinoma	
Mid SET	Laparoscopic assessmentLaparoscopic IOUS	Staging laparoscopyLaparoscopic liver biopsy
Benign biliary bile duct/st	rictures injuries	
Mid SET	■ Roux-en-Y hepatico-jejunostomy	 Intra-operative recognition call for help or drain and refer Postoperative recognition laparoscopic or open drainage and refer
Choledochal anomalies		
Late SET	Biliary resectionRoux-en-Y hepatico-jejunostomy	
PANCREATIC		
Acute pancreatitis Mid SET	Percutaneous necrosectomy	Operative recognition of acute pancreatitis
IVIIQ JET	- refeataliedus fiechosectoffiy	 Operative recognition of acute pancreatitis Percutaneous abscess drainage
Late SET	 Open, laparoscopic and endoscopic cysto-gastrostomy Open necrosectomy Laparoscopic necrosectomy 	



	TECHNICAL EXPERTISE	
SET LEVEL	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Chronic pancreatitis		
Late SET	Pancreatico-jejunostomyDistal pancreatectomyRole for splenic preservation	
Periampullary and ductal par	ncreatic carcinoma	
Mid SET	■ Biliary-enteric anastomosis and gastro-enterostomy	 Laparoscopic staging
Late SET	Pancreatic-duodenectomyDistal pancreatectomy	■ Gastro-enterostomy
Pancreatic cysts & Cystic tun	nours trauma	
Mid SET	Pancreatic duodenectomyDistal pancreatectomy	 Laparoscopic staging
Late SET		Gastro-enterostomy
Other pancreatic tumours inc endocrine tumours incidental tumours	cluding: See also Endocrine Module	
Mid SET	Pancreatic duodenectomyDistal pancreatectomy	
Pancreatic-duodenal trauma See also Trauma Module		
Mid SET	 Techniques for repair of a duodenal injury/± pancreatic injury Assess the extent of injury at laparotomy 	Damage controlLaparotomy
Late SET	Distal pancreatectomy	
ERCP complications		
SPLEEN AND HAEMOPOIETIC Splenic trauma	SYSTEM	
Mid SET		■ Trauma splenectomy
Late SET	Understand the principles of use of various haemostatic agentsSplenorrhaphy	
ITP/other indications for sple	enectomy	
Mid SET	Laparoscopic splenectomy	■ Elective splenectomy for a normal sized spleen
Massive spleen		
Late SET	 Splenectomy for massive spleen 	
Lymph nodes including lympl	homa	
Early SET		Open node biopsy;cervicalaxillaryfemoral
Mid SET	 Laparoscopic abdominal nodal biopsy See also Surgical Oncology Module 	 Open abdominal nodal biopsy