

MODULE TITLE:	UPPER GI & HPB - OESOPHAGO-GASTRIC
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REVIEWED BY:	Tom Wilson, Michael Donovan (2010) Adrian Anthony, Simon Bann, Wendy Brown, Jon Gani, Sayed Hassen, Michael Cox, Noel Tait (2013). Simon Bann, Sayed Hassen
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 normal that general surgeons maintain a current understanding of the most appropriate time and manner of intervention. It is also important that they keep abreast of the most current 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 describe and select appropriate diagnostic testing 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 described and surgical and not patients and their patients and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed described and surgical and their family) about procedures, outcomes, and risks associated with surgery in ways that encourage their participation in informed described and surgical and their family.
Anatomy, Physiology, Pathology	Trainees should have thorough knowledge of the normal embryology, anatomy, physiology and pathology, of: • foregut
Suggested Reading	Trainees who are preparing to sit the Generic and Clinical Examinations need to refer to the recommended reading list on the RACS website at <u>www.surgeons.org</u> For the Fellowship examination, there are no prescribed texts. Trainees are expected to keep abreast of the current literature, including textbooks, journal articles, consensus guidelines and other on-line resources.
Learning Opportunities and Methods	If state-based and/or local hospital courses/meetings are available, trainees are strongly advised to avail themselves of these opportunities. This also includes practising procedures on s Trainees are encouraged to present their research at national and/or accredited regional training days, in order to fulfil the research requirement.
How this module will be assessed	The Generic and Clinical Examinations; Fellowship examination (written and viva voce sections); Trainee evaluation forms and logbooks; SEAM (where applicable).
Assumed Knowledge	 Embryology, anatomy and physiology of the foregut
Definitions	<i>Operative Management - Knows:</i> Trainees are required to be familiar with the indications, benefits and limitations of the procedure; trainees should be able to describe the relevant of trainees are encouraged to at least observe and preferably assist in these procedures.
	<i>Operative Management - Does:</i> In addition to the above, trainees must be competent at performing the procedure.

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en (2016).

non-surgical management of abdominal disorders. It is urrent developments in investigative and surgical procedures.

decision making (consent)

n simulation equipment where applicable.

t operative techniques involved in performing the procedure;

	MEDICAL EXPERTISE	JUDGEM	JUDGEMENT / CLINICAL DECISION MAKING			AL EXPERTISE
SET LEVEL	ANATOMY PHYSIOLOGY PATHOLOGY	CLINICAL ASSESSMENT	INVESTIGATIONS	PRINCIPLES OF MANAGEMENT	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
OESOPHAGUS						
-	hageal reflux (GOR) disease ar	nd Hiatus hernia/paraoesophag	geal hernia			
Early SET	 Describe embryology, anatomy, and physiology of the oesophagus Describe manometric associations 	 Assess and differentiate the clinical symptoms 				
Mid SET	 Describe complications including stricture, respiratory symptoms and Barrett's Describe acute of presentation of strangulated Hiatus hernia 		 Outline the role of: gastroscopy manometry 24 Hr pH studies barium swallow 	 Review the principles of non-operative/medical management Establish: indications options complications of operative management 		 Endoscopic assessment of GOR
Late SET				 Management of incarcerated Hiatus hernia 	 Laparoscopic/ open fundoplication 	
• Schatzki ring Early SET Mid SET	orrosive strictures g and webs • Describe the lesion and aetiology when known	 Assess the clinical symptoms 	 Analyse the role of gastroscopy and barium 	 Implement the principles of non-operative, endoscopic 		Endoscopic assessment of the stricture
Ossanhansala			swallow	and operative management		 Endoscopic dilatation
Oesophageal I	malignancies					
Early SET	 Describe the aetiology and pathology Identify prognostic factors 	 Recognise the clinical presentations Examine and assess the clinical staging Medical assessment 	 Define the role of gastroscopy Define the role of radiological investigations 	 Outline the multi-disciplinary approach to management 		
Mid SET				 Define the methods of palliation Patient and family counselling Outline management of the post-resection functional problems Outline management of high grade dysplasia 	 Resection/reconstruction options Palliative stenting 	 Endoscopic diagnosis and assessment Feeding jejunostomy Laparoscopic staging
Other tumour	S					
Early SET	 Describe other benign tumours of the oesophagus 	 Recognise the clinical presentations 	 Define the role of gastroscopy, EUS, medical imaging 	 Define the management of these tumours 		

	MEDICAL EXPERTISE	JUDGEME	ENT / CLINICAL DECISION	MAKING	
SET LEVEL	ANATOMY PHYSIOLOGY PATHOLOGY	CLINICAL ASSESSMENT	INVESTIGATIONS	PRINCIPLES OF MANAGEMENT	OPERA MANAG - KNC

Other tumours (continued)

Mid SET			 Endoscopic dia
			assessment

Motility disorders

Early SET	 Define the pathological abnormalities 	 Describe the clinical presentation 	 Describe the role of gastroscopy, barium swallow, and manometry 		
Mid SET				 Describe the principles of management of the relevant conditions 	 Endoscopic as management
Late SET					 Laparoscopic myotomy

Oesophageal varices

Early SET	 Knowledge of the aetiology and associated pathology 			
Mid SET		 Differentiate the clinical features of a variceal bleeding from other causes of upper GI bleeding Define the extent of underlying liver disease 	 Describe the role of gastroscopy Describe the laboratory assessment of the severity of the associated liver disease 	 Outline the various forms of treatment: endoscopic assessment and therapies radiological stenting (TIPPS) operative shunts Management of the underlying liver disease
Oesophagea	l foreign bodies			
Early SET	 Define the pathological abnormalities 	 Assess the clinical presentation 	 Differentiate the role of gastroscopy and medical imaging 	 Describe the endoscopic therapies and the management of complications (perforation) Define the follow-up management
Mid SET				
Oesophagea	I perforation			
Early SET	 Describe the aetiology and associated pathology 	 Describe the clinical presentation 	 Define the role of medical imaging and laboratory investigations 	 Define the diagnosis and describe the principles of therapy: options to treat the injury management of the associated sepsis

TECHNICAL EXPERTISE						
RATIVE AGEMENT NOWS -	OPERATIVE MANAGEMENT - DOES -					
diagnosis and						
assessment and t options						
c Heller's						
	 Endoscopic assessment 					
	 Endoscopic assessment and removal 					

	MEDICAL EXPERTISE	JUDGEMI	JUDGEMENT / CLINICAL DECISION MAKING		TECHNICAL	. EXPERTISE
SET LEVEL	ANATOMY PHYSIOLOGY PATHOLOGY	CLINICAL ASSESSMENT	INVESTIGATIONS	PRINCIPLES OF MANAGEMENT	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -
Oesophageal p	perforation (continued)					
Mid SET				 Outline assessment of appropriate transfer to specialist centre 		
Late SET					 Operative repair, endoscopic stenting 	
STOMACH	(restriction and duadance)					
Early SET	 Cgastric and duodenal) Describe embryology, anatomy, and physiology of the stomach and duodenum (foregut component) Describe the pathophysiology of benign peptic ulcer disease Recognise and review the somplications: 	 Describe and differentiate the clinical symptoms and signs Outline assessment of patients with complications 	 Define the role of gastroscopy: elective emergency Investigations relevant to Helicobacter Pylori 	 Define the medical management of uncomplicated peptic ulcers, including Helicobacter eradication Define the techniques used to treat bleeding peptic ulcers 		
	complications: - bleeding - perforation - stricture					
Mid SET				 Summarise the principles of management of complications: bleeding perforation stricture 		 Endoscopic assessment: elective emergency Management of complications (open/lap/endo) operations): bleeding perforation stricture difficult duodenum
Late SET						 Techniques of endoscopic haemostasis
Gastric carcino	oma					
Early SET	 Describe pathophysiology and the pathological staging 	 Describe and differentiate the clinical symptoms and signs of gastric carcinoma and other upper GI conditions 	 Define the role of gastroscopy, imaging, and staging laparoscopy in the assessment 	 Outline the multi-disciplinary management Selection and pre-operative patient preparation 	 Total or subtotal gastrectomy and oesopha-gastrectomy Radical distal gastrectomy 	
Mid SET				 Describe the role of palliative surgical procedures Patient and family counselling 		 Endoscopic and laparoscopic staging Gastro-enterostomy Feeding jejunostomy

SET LEVEL	MEDICAL EXPERTISE	JUDGEM	JUDGEMENT / CLINICAL DECISION MAKING			TECHNICAL EXPERTISE		
	ANATOMY PHYSIOLOGY PATHOLOGY	CLINICAL ASSESSMENT	INVESTIGATIONS	PRINCIPLES OF MANAGEMENT	OPERATIVE MANAGEMENT - KNOWS -	OPERATIVE MANAGEMENT - DOES -		
-	Other gastric tumours e.g. GIST See also Surgical Oncology Module							
Early SET	 Describe the pathology 	 Define the clinical symptoms and signs 						
Mid SET			 Outline the role of gastroscopy and medical imaging 	 Describe the principles of management 		 Endoscopic assessment Local gastric resection or distal gastrectomy (lap/open) 		
Late SET				 Aware of role of adjuvant, neoadjuvant and palliative therapies 		 Laparoscopic and open wedge gastrectomy 		