

MODULE TITLE:	UPPER GI & HPB - OESOPHAGO-GASTRIC
DEVELOPED BY:	Chris Christophi, Mark Smithers
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	<ul> <li>Embryology, anatomy and physiology of the foregut</li> </ul>
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.

### 7-Nov-2016

#### 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	<ul> <li>Describe embryology, anatomy, and physiology of the oesophagus</li> <li>Describe manometric associations</li> </ul>	<ul> <li>Assess and differentiate the clinical symptoms</li> </ul>				
Mid SET	<ul> <li>Describe complications including stricture, respiratory symptoms and Barrett's</li> <li>Describe acute of presentation of strangulated Hiatus hernia</li> </ul>		<ul> <li>Outline the role of:</li> <li>gastroscopy</li> <li>manometry</li> <li>24 Hr pH studies</li> <li>barium swallow</li> </ul>	<ul> <li>Review the principles of non-operative/medical management</li> <li>Establish: <ul> <li>indications</li> <li>options</li> <li>complications of operative management</li> </ul> </li> </ul>		<ul> <li>Endoscopic assessment of GOR</li> </ul>
Late SET				<ul> <li>Management of incarcerated Hiatus hernia</li> </ul>	<ul> <li>Laparoscopic/ open fundoplication</li> </ul>	
• Schatzki ring Early SET Mid SET	orrosive strictures g and webs • Describe the lesion and aetiology when known	<ul> <li>Assess the clinical symptoms</li> </ul>	<ul> <li>Analyse the role of gastroscopy and barium</li> </ul>	<ul> <li>Implement the principles of non-operative, endoscopic</li> </ul>		Endoscopic assessment of the stricture
Ossanhansala			swallow	and operative management		<ul> <li>Endoscopic dilatation</li> </ul>
Oesophageal I	malignancies					
Early SET	<ul> <li>Describe the aetiology and pathology</li> <li>Identify prognostic factors</li> </ul>	<ul> <li>Recognise the clinical presentations</li> <li>Examine and assess the clinical staging</li> <li>Medical assessment</li> </ul>	<ul> <li>Define the role of gastroscopy</li> <li>Define the role of radiological investigations</li> </ul>	<ul> <li>Outline the multi-disciplinary approach to management</li> </ul>		
Mid SET				<ul> <li>Define the methods of palliation</li> <li>Patient and family counselling</li> <li>Outline management of the post-resection functional problems</li> <li>Outline management of high grade dysplasia</li> </ul>	<ul> <li>Resection/reconstruction options</li> <li>Palliative stenting</li> </ul>	<ul> <li>Endoscopic diagnosis and assessment</li> <li>Feeding jejunostomy</li> <li>Laparoscopic staging</li> </ul>
Other tumour	S					
Early SET	<ul> <li>Describe other benign tumours of the oesophagus</li> </ul>	<ul> <li>Recognise the clinical presentations</li> </ul>	<ul> <li>Define the role of gastroscopy, EUS, medical imaging</li> </ul>	<ul> <li>Define the management of these tumours</li> </ul>		

	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			<ul> <li>Endoscopic dia</li> </ul>
			assessment

## Motility disorders

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

## **Oesophageal varices**

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

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

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

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	<ul> <li>Describe the pathology</li> </ul>	<ul> <li>Define the clinical symptoms and signs</li> </ul>						
Mid SET			<ul> <li>Outline the role of gastroscopy and medical imaging</li> </ul>	<ul> <li>Describe the principles of management</li> </ul>		<ul> <li>Endoscopic assessment</li> <li>Local gastric resection or distal gastrectomy (lap/open)</li> </ul>		
Late SET				<ul> <li>Aware of role of adjuvant, neoadjuvant and palliative therapies</li> </ul>		<ul> <li>Laparoscopic and open wedge gastrectomy</li> </ul>		