Gastro Intestinal Pathology

Duration: 04 weeks (20 days)

Topic/ Concept	Objectives	Time	Dept.	T/L Activity	Comments
3/SBM-4/01					
Alimentation in health	1. recall digestion, absorption and metabolism relating to, carbohydrates, proteins, fat, vitamins, minerals & trace elements				
	2. recall normal structure and functions of the liver, gut, pancreas and biliary tract			Recall	
	3. recall the neural and hormonal control of the alimentation				
3/SBM-4/02					
The role of nutrients, the requirements &					
sources	recall			Recall	
1. the concept of a healthy wholesome diet					
3/SBM-4/03					
Normal bowel flora	recall			Recall	
3/SBM-4/04					
Diarrhoea					
1. Mechanisms	recall				
2. Effects					
3. Therapies	2006-3/SBM-4/8				
3/SBM-4/05					
Vomiting					
1. Mechanisms	recall			Self learning	
2. Effects					
3. Therapies	2006-3/SBM-4/8				
	At the end of the module, student should be able to,				
3/SBM-4/06					
Introduction to GI pathology	1. apply principles of general pathology to the diseases of the gastrointestinal system (acute and chronic inflammation, metaplasia, dysplasia, neoplasia) – Recall		Pathology		Recall - Done in Foundation Module

3/SBM-4/07					
Infective disease in relation to alimentation					
a. Infective diarrohea, Food poisoning	1. list the causes of infective diarrohea and food poisoning		Microbiology	Lecture	Done in Infection module
	2. describe the pathogenesis of infective diarrhoea				
	3. state the key methods of diagnosis of infective diarrhoea and food poisoning				
	4. outline key methods in prevention of infective diarrhoea and food poisoning				
b. Pathological changes in gut infections	1. describe the pathogenesis, morphological changes and complications of infections in the oesophagus, stomach, duodenum, small intestine, colon and anus. 2.List the opportunistic infections in the gastrointestinal system in immunocompramised hosts.	2h	Pathology	Lecture	
c. Malnutrition associaterd with Intestinal Infections	1. name the intestinal protozoans and helminths that cause malnutrition in Sri Lanka		Parasitology	Lecture	
	2. state the general clinical features that indicate malnutrition with infection caused by each of these agents				Ascariasis, Giardiasis, HW disease - Done in Infection module
	3. describe briefly the major mechanisms responsible for malnutrition in each infection				
2006-3/SBM-4/08					
a. Oesophagus & Stomach	Oesophagus: 1. discuss the effects and complications of gastrosophageal reflux disease. 2. name the causes of oesophagitis. : Stomach: 1. discuss the causes, morphology and complications of acute gastritis 2. discuss the causes, morphology and complications of chronic gastritis 3. discuss the causes of gastric ulceration, emphasising the morphological changes in each condition.	1h + 2h	Pathology	Lecture+ Museum class	

b. Diseases of small intestine and appendix					
o. Diseases of sman intestine and appendix	Malabsorption syndromes: 1. recall the physiology of digestion and absorption 2. discuss the outcomes in failure in each step in digestion and absorption. 3. list causes of malabsorption. 4. discuss the eatiolopathogenesis, morphology, clinical symptoms and complications of coeliac disease. 5. outlines the eatiolopathogenesis, morphology, clinical symptoms and complications of Whipples disease and tropical sprue	2h	Pathology	Lecture	
	Appendix 1. List the causes of inflammation of the appendix. 2. Discuss the aetiopathogenesis, morphology, complications and clinical outcomes of acute appendicitis.				
3/SBM-4/09					
Inflammatory bowel disease	1. recall chronic inflammation. 2. describe the pathogenesis, morphological changes, clinical outcomes and complications of ulcerative colitis and Crohn's disease. 3. compare and contrast the features of ulcerative colitis and Crohn's disease 4. List extraintestinal manifestations of the above.	2h	Pathology	Lecture	
3/SBM-4/10					
Anal and peri anal disease	1. recall acute and chronic inflammation and carcinogenesis. 2. describe the aetiopathogenesis, morphological appearances and complications of -fissures, fistulae, ulcers, haemorrhoids, and tumours.	1h	Pathology	Lecture	
3/SBM-4/11					
Neoplasms of the Gatrointestinal tract	1.list the common neoplasms (benign and malignant) in the following organs: oesopgagus, stomach, small intestine, colon, appendix and anus. 2. discuss the malignant neoplasms of the above organs with regard to aetiopathogenesis (emphasising the premalignant lesions), morphology, modes of spread and clinical outcomes. 3. outlines the polyposis syndromes in the gastrointestinal tract	2h	Pathology	Lecture+ Museum class	

3/SBM-4/12					
Introduction to liver pathology	apply the principles of general pathology to the liver diseases - Recall		Pathology		Recall
3/SBM-4/13					
Liver disease	describe the aetiopathogenesis and morphological changes and complications of acute hepatatis, chronic hepatitis and liver abscess.		2h Pathology 1hr	Lecture+ Museum class	
	2. describe the pathogenesis, morphological appearances and complications of alcoholic liver disease, nonalcoholic fatty liver disease (NAFLD) and cirrhosis.	2h			
	3. descibe the pathological changes and effects of portal hypertension.				
	4. describe the pathology of hepatomegaly				
	5. recall amyloidosis, storage diseases, acute and chronic venous congestion and steatosis				
	6. interpretation of investigations in diseases of the liver - (i). interpret serum markers of acute and chronic hepatitides. (ii). understand the principles and interpretation of investigations of common liver diseases.(acute and chronic hepatitides, cirrhosis, portal hypertension, ascites,NAFLD,alcoholic liver disease and tumours.)	1hr			
		1h	Medicine	Lecture	
3/SBM-4/14					
Diseases of the Biliary system	1.describe the aetiopathogenesis, morphology, complications and clinical out comes of obstructive jaundice, billiary calculi and acute and chronic cholecystitis. 2. outline the tumours of the liver and the biliary system and discuss their modes of spread	2h	Pathology	Lecture+ Museum class	

3/SBM-4/15					
Pancreatic disease	 1.describe the aetiopathogenesis, morphology, complications and clinical out comes of acute and chronic pancreatitis. 2. outline the biochemical investigations in acute and chronic pancreatitis 3. outline the tumours of pancrease emphasising the modes of spread and clinical outcomes. 	2h	Pathology	Lecture	
3/SBM-4/16					
a. Imaging of GI diseases		1h + 1h		Lecture	
	1. radiological, pathological correlation of gastrointestinal diseases discussed in this module		Radiology/ NMU		
	2. radiological pathological correlation of hepatobiliary and pancreatic diseases				
b. To introduce Nuclear medicine application in clinical practice	3. to understand organ physiology and its functions with regard to radioisotope upatake		141710	Lecture	
	4. to understand practical applications on given clinical areas				