

Women Medical College

Department of Medical Education & Research

Abbottabad



Study Guide
General Surgery
1-5 Year MBBS

1ST YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
FOUNDATION, Blood, MSK, CVS	No Topics					
RESPIRATION	SURGERY	Lung volumes and capacities	Describe pneumothorax Define Hydro pneumothorax	2- hours	Interactive lecture	MCQs

2ND YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Neurosciences- 1A Module	Neurosurgery	Brain injuries	Describe the types, clinical presentations and investigations of a patient with head injury	2	LGF	MCQ
		Brain and spinal tumors	Explain the types, clinical features and investigations of brain and spinal tumors	2	LGF	MCQ
Neurosciences- 1B module	Pediatric surgery	Cleft palate	Describe the pathogenesis, clinical features and management of a patient with cleft palate	2	LGF	MCQ

GIT and Metabolism Module	Surgery	Peptic ulcer	Describe the complications of long-term peptic ulcer disease and its surgical management	01	LGF	MCQ
		Lump in the abdomen	Describe common causes of lump in abdomen and enlist the common surgical procedures for treatment of hernia.	01	LGF	MCQ
		Acute pancreatitis	Describe the etiology, clinical features, complications and management of acute pancreatitis	01	LGF	MCQ
GIT and Metabolism Module	Surgery	Obstructive jaundice	Describe the etiology, clinical features, biochemical investigations and treatment options of obstructive jaundice	01	LGF	MCQ

		Colorectal malignancies	Describe the etiology, clinical features, investigations and management of colorectal cancers	01	LGF	MCQ
RENAL MODULE	General Surgery/urology	Urinary retention	Describe the etiology, and management of urinary retention Describe the etiology, clinical features and treatment of Benign prostatic hyperplasia	01	LGF	MCQ
ENDOCRINE MODULE	NEUROSURGERY	Tumors of pituitary gland	Explain the types, clinical features, CT and MRI findings and management of pituitary tumors	02	LGF	MCQ
REPRODUCTIVE MODULE	General Surgery	Carcinoma of breast	Describe the etiology, pathological types and clinical presentation of carcinoma of breast	02	LGF	MCQ

3RD YEAR MBBS

MODULE	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
FOUNDATION-II MODULE	NIL				
INFECTION AND INFLAMMATION MODULE	Surgical infections, Anesthesia & pain relief, Acute abdomen		3	Clinical Observation	OSCE/Ward Test
MULTISYSTEM-I Module	NIL				
BLOOD & IMMUNOLOGY - II MODULE	NIL				
MSK -II Module					
CVS-II MODULE					
RESPIRATORY - II MODULE					

4TH YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
RENAL-II MODULE	Surgery/Urology	Renal transplant surgery	Enlist diagnostic indicators of renal transplant	03	LGF	MCQ
			Describe pre-requisite for successful renal transplant		LGF	MCQ
			Discuss post renal transplant care of patient		LGF	MCQ
			Describe common complications of renal transplant surgery		LGF	MCQ
			Enlist immunosuppressive drugs used in Renal transplant		LGF	MCQ
	Surgery/Urology	Kidney Stones	Enlist factors predisposing to specific stone types Discuss evaluation of stone formers Discuss clinical features and	02	LGF	MCQ

**RENAL-II
MODULE**

		Diagnosis of renal stone Describe renal stone treatment options			
	Renal trauma	Describe Initial resuscitation of renal trauma patient Classify mechanism and grading of renal trauma Discuss clinical and radiological assessment of renal trauma		LGF	MCQ
	Pelvic Ureteric junction obstruction in adult (PUJO)	Discuss management plan of renal trauma. Define PUJ obstruction. Enlist etiology (congenital and acquired causes). Describe clinical presentation of PUJO. Interpret Investigations (renal ultrasound, IVU (Intravenous urography), MAG-3 renography, retrograde pyelography).	04	LGF	MCQ

**RENAL-II
MODULE**

Surgery/Urology		JUSTIFY Management PLAN options (Endopyelotomy, Pyeloplasty).		
	Anomalies of renal fusion and ascent	Describe various anomalies of renal tracts like Horseshoe kidney, Ectopic kidney, Renal agenesis, Malrotated kidney, Urinary tract duplication.	04	LGF MCQ
	Renal Cell Carcinoma (RCC)	Describe clinical presentation and investigation of RCC. Enlist Treatment of localized RCC. Construct Management of metastatic RCC.	04	LGF MCQ
	carcinoma of urinary bladder	Discuss clinical Presentation of bladder cancer. Describe diagnosis and clinical staging of bladder cancer. Construct management Plan of bladder cancer.	02	LGF MCQ
		Define IPSS (International prostate symptoms scoring) for enlarged prostate.		LGF MCQ

Enlarged Prostate	Describe watchful waiting for enlarged prostate. Enlist medical management of BPH. Minimal invasive management of BPH Invasive surgical surgeries TURP (transurethral resection of prostate) Open prostatectomy	04		
Carcinoma prostate	Describe clinical presentation and management			
Urinary Incontinence	Define urinary incontinence Discuss urinary incontinence Classify urinary incontinence Discuss nocturnal enuresis Enlist causes and pathophysiology	02	LGF	MCQ

RENAL-II MODULE			Describe evaluation of incontinence Enumerate Investigation of incontinence Describe conservative treatment options surgical options			
		Urethral strictures	Describe etiology, Presentation, investigation, and management of urethral stricture	02	LGF	MCQ
		Posterior urethral valve	Discuss clinical presentation and management of Posterior urethral valves (PUV).		LGF	MCQ
NEUROSCIENCES-II MODULE	Neurosurgery		Describe the neurosurgical management of stroke and Subarachnoid hemorrhage	01	LGF	MCQ
	Neurosurgery		Describe the general management of a patient with traumatic paraplegia Describe the types, clinical features and surgical management of spinal tumours	01	LGF	MCQ

Renal-II, Endocrine & Reproduction- II MODULE	Neurosurgery	Surgical management of pituitary adenoma	Explain the surgical treatment and complications of pituitary macro/microadenomas	01	LGF	MCQ
		Occupational Health:	Define occupational health	01	LGF	MCQ
	Urology/Surgery	Causes of male infertility	Discuss the causes of male infertility Explain the diagnostic workup of a male infertile patient	01	LGF	MCQ
	Surgery	Cryptorchidism	Define Cryptorchidism Explain the etiology, complications, and management of Cryptorchidism	02	LGF	MCQ
		Hydrocele and varicocele	Explain the cause, clinical features, complications and surgical management of hydrocele and varicocele		LGF	MCQ
		Benign prostatic hyperplasia	Explain the etiology, clinical features, complications, and management of BPH		LGF	MCQ

**Renal-II,
Endocrine &
Reproduction-
II MODULE**

Carcinoma of prostate	Explain the etiology, clinical features, complications, staging, management, and prognosis of carcinoma of the prostate	02	LGF	MCQ
Investigations of breast diseases	justify the investigations of a patient with a breast lesion		LGF	MCQ
Benign breast diseases	Classify benign breast diseases	02	LGF	MCQ
Malignant breast diseases	Classify malignant breast diseases Discuss the risk factors, etiology, clinical features, investigations, management, and prognosis of a patient with breast cancer Describe the role of hormone receptors in breast cancer Explain the complications of breast cancer surgery Discuss the role of pharmacological	03	LGF	MCQ

			treatment options in breast cancer management Explain the role of selective estrogen receptors modulators in the prevention of breast cancer in high-risk women			
GIT & HEPATOBILIAR Y-II MODULE	Surgery	Tumors of the esophagus	Discuss the classification, etiology, clinical features, investigations, staging and management of Esophageal cancers	01	LGF	MCQ
		Para-esophageal hiatus hernia	Explain the etiology, clinical features, investigations, and management of Para-esophageal hiatus hernia		LGF	MCQ
		Gastric cancer	Describe the types, etiology, risk factors, lab diagnosis and management of a patient with gastric cancer.	01	LGF	MCQ
		Gastric outlet obstruction	Describe the etiology, diagnosis, and management of a patient with gastric outlet obstruction.	01	LGF	MCQ

Gall bladder and pancreas	Explain the etiology, clinical features, investigations, treatment and complications of gall stones Explain the etiology, clinical features, investigations, treatment and complications of acute and chronic cholecystitis Explain the etiology, clinical features, investigations, treatment and complications of acute and chronic pancreatitis	03	LGF	MCQ
Carcinoma of the gall bladder	Discuss the risk factors, etiology, clinical features, staging and complications of carcinoma of gall bladder		LGF	MCQ
Liver abscess	Explain the etiology, clinical features, investigations, treatment, and complications of liver abscesses		LGF	MCQ

GIT &
HEPATOBIILIAR
Y-II MODULE

Hydatid liver cysts	Explain the etiology, clinical features, investigations, treatment, and complications of Hydatid liver cysts	02	LGF	MCQ
Acute appendicitis	Discuss the etiology, risk factors, pathogenesis, clinical features, differential diagnosis, investigations, treatment, and complications of acute appendicitis	02	LGF	MCQ
Intestinal obstruction	Discuss the etiology, clinical features, investigations, management, and complications of intestinal obstruction	02	LGF	MCQ
Ulcerative colitis	Explain the etiology, pathogenesis, clinical features, complications, and surgical management of Ulcerative colitis	02	LGF	MCQ
Crohn's disease	Explain the etiology, pathogenesis, clinical features, complications, and	01	LGF	MCQ

		surgical management of Crohn's disease			
	Diverticular disease	Explain the etiology, pathogenesis, clinical features, complications and management of Diverticulosis and Diverticulitis	01	LGF	MCQ
	Anal diseases: • fistula • fissures • hemorrhoids	Define perianal fistula and anal fissure Explain the risk factors and management of anal fistula and anal fissures Explain the risk factors and management of hemorrhoids	01	LGF	MCQ
	Colorectal cancers	Classify colorectal cancers Describe the staging of colorectal cancers Explain the pathogenesis, risk factors and clinical features of colorectal cancers	02	LGF	MCQ

			Explain the complications, management, and prognosis of colorectal cancers			
		Ischemic Colitis	Explain the etiology, pathogenesis, clinical features, complications, and management of Ischemic colitis	01	LGF	MCQ

FINAL YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Foundation-III MODULE	Surgery	Basic surgical skills	Explain the principles of patient care and safety in operation theatre / surgical safety checklists Explain the principles of skin and abdominal incisions Explain the principles of wound closure and drain usage and diathermy	01	LGF	MCQ
		Laparoscopic and robotic surgery	Explain the principles, advantages, disadvantages, indications, and complications of Laparoscopic and Robotic surgery.	01	LGF	MCQ
		Surgical informed consent	Explain the types and components of informed consent in surgical practice.	01	LGF	MCQ
		Nutrition and fluid therapy	Assess the fluid and electrolytes requirements in pre-	01	LGF	MCQ

			and post-operative patients. Explain the different methods of providing nutritional support and their complications.			
		Postoperative care	Explain the standards of postoperative care. Discuss the general and system specific postoperative complications.	01	LGF	MCQ
		Enhanced Recovery after Surgery (ERAS)	Describe the ERAS protocol Discuss the components of ERAS protocol Explain the benefits of ERAS	01	LGF	MCQ
		Pain Management	Evaluate a patient with postoperative pain Manage a patient with pain during perioperative phase Discuss the pathophysiological consequences of postoperative pain	01	LGF	MCQ
Blood & Immunology-III		NIL				

Musculoskeletal System-III	Surgery/ Plastic Surgery	Burns o Classification o Assessment o Management o Complications	Classify burns. Assess a patient of burns in terms of burn area calculation, fluid assessment, and referral to specialized burn units. Discuss the initial and long-term management of burns Explain the early and late complications of burns Calculate burn area. Counsel a patient and his/her family members with burns.	03	LGF	MCQ
Cardiorespiratory Module	Surgery	Chest trauma Hemothorax	Discuss the diagnostic workup for Chest trauma	01	LGF	MCQ
			Discuss the management options for a patient with Chest trauma Perform ABC in a case presenting with chest trauma	01	LGF	MCQ
			Observe chest intubation of a patient presenting with chest trauma	0.5	LGF	MCQ

	Surgery	Thoracostomy and chest intubation	Explain the indications for Thoracostomy and chest intubation. Observe the procedure of Thoracostomy and chest intubation Counsel a patient for the procedure of Thoracostomy and chest intubation	01	LGF	MCQ
Renal Module	Surgery	Nephrolithiasis	Explain the etiology, risk factors, types, approach, investigations, treatment, and prevention of Nephrolithiasis Take a history from a patient presenting with acute Flank and loin pain. Perform a physical examination of a patient with acute Flank, and loin pain. Counsel a patient presenting with nephrolithiasis.	01	LGF	MCQ
		Dysuria	Discuss the diagnostic workup for Dysuria. Discuss the management options		LGF	MCQ

Renal Module				for a patient with Dysuria	04		
		Hematuria	Discuss the diagnostic workup for Hematuria. Discuss the management options for a patient with Hematuria.				
		Testicular torsion	Discuss the diagnostic workup for Testicular torsion Discuss the management options for a patient with Testicular torsion.				
		Hydrocele	Discuss the diagnostic workup for Hydrocele. Discuss the management options for a patient with Hydrocele.				
		Testicular tumors	Explain the diagnostic workup and management and complications of a patient with suspected Testicular tumors.				
			Discuss the diagnostic workup for Epididymo-orchitis.				

		Epididymo-orchitis	Discuss the management options for a patient with Epididymo-orchitis.			
Neurosciences -III	Neurosurgery	Intracranial space	Classify intracranial space occupying lesions (benign, malignant and infections)	02	LGF	MCQ
		occupying lesions	Discuss the clinical features, radiological findings and treatment of intracranial space occupying lesions			
		Head Injury	Discuss the diagnostic workup and management for patients with Head Injury Counsel about the post-operative care of patients with head injuries and their families.	02	LGF	MCQ
	Pediatric surgery	Congenital malformations- Spina Bifida/myelomeningocele	Explain the clinical features, investigations, and management of a child with Spina Bifida/Myelomeningocele Discuss and counsel the pts regarding the changes in the lifestyle of patients	01	LGF	MCQ

			with congenital malformations			
	Neurosurgery	Syringomyelia	Describe Syringomyelia and Explain the onset of Syringomyelia Discuss the diagnostic work up and management for pts suspected of Syringomyelia	01	LGF	MCQ
Multisystem-II	Surgery	Bariatric surgery	Discuss the forms of surgical management of obesity	01	LGF	MCQ
		Vitamins deficiencies Cognitive • Thiamine deficiency • Pyridoxine deficiency • B12 deficiency and pernicious anemia	Explain the etiology, clinical features, investigations, and treatment of Beri Beri. Explain the etiology, clinical features, investigations, and treatment of Pyridoxine deficiency. Explain the etiology, clinical features, investigations, and treatment of B12 deficiency / pernicious anemia.	01	LGF	MCQ
			Explain the etiology, clinical features, investigations, treatment, and		LGF	MCQ

Multisystem-II		Vitamin A, D, E, K deficiency	prevention of Vitamin A deficiency Explain the etiology, clinical features, investigations, and treatment of vitamin D deficiency Explain the etiology, clinical features, investigations, and treatment of vitamin E deficiency Explain the etiology, clinical features, and management of vitamin K deficiency	01		
	Surgery	Nutritional support/Enteral and parenteral nutrition	Define malnutrition and explain the methods of nutritional support. Explain the indications, contraindications, and complications of oral, enteral, and parenteral nutritional support Discuss the modes of clinical and laboratory monitoring of nutritional support Describe the routes of access of parenteral nutrition	03	LGF	MCQ

			Perform insertion of Nasogastric tube			
			Observe the insertion and care of PEG tube			
			Keep an intake and output record of an admitted patient on parenteral nutrition			
			Counsel a patient before NG tube and PEG tube insertion			
Endocrine & Reproduction III	Surgery	Thyroid nodule	Explain the diagnostic approach, management, and complications of multinodular goitre.	01	LGF	MCQ
			Explain the diagnostic approach, and management of a patient with solitary thyroid nodule.			
			Perform thyroid examination			
		Diabetic foot ulcers	Discuss the classification, investigations, management, and complications of diabetic foot ulcers	02	LGF	MCQ
			Examine and stage a diabetic foot ulcer			
			Discuss approach to a patient with breast lump emphasizing on	01		

Endocrine &
Reproduction
III

Breast diseases	diagnostic work-up of different breast pathologies (complexity of benign and malignant breast diseases) including imaging and procedures.			
	Discuss the diagnostic approach and management of a patient with nipple discharge.	01	LGF	MCQ
	Perform a Clinical breast examination by all techniques including “radial wagon wheel” and “spoke” method			
	Counsel a patient with breast cancer about the diagnosis, management, and screening of her family members.			
Surgery	Dysphagia	01	LGF	MCQ
	Obstructive jaundice			

GIT Module			counsel a standardized patient with newly diagnosed Carcinoma head of the Pancreas.			
		Acute appendicitis	Discuss the diagnostic approach and management of a patient with pain in the right iliac fossa due to suspected appendicitis.	01	LGF	MCQ
		Pain abdomen	Discuss the diagnostic approach and management of a patient with pain in the abdomen of acute onset and chronic onset.			
			Illicit signs of acute appendicitis in a child.			
			Counsel the parents of a child with acute appendicitis			
		Intestinal obstruction	Discuss the etiology, diagnostic approach, and management of a patient with suspected intestinal obstruction.	01	LGF	MCQ
		Intestinal perforation	Discuss the etiology, diagnostic approach, and management of a patient with suspected intestinal perforation/peritonitis.	01	LGF	MCQ

GIT Module

		Hernias	Discuss the etiology, anatomical concepts, management, and complications of a patient with inguinal hernias .	01	LGF	MCQ
			Perform transillumination test for inguinal hernias.			
	Surgery	Constipation	Discuss the diagnostic workup and management approach for a patient with constipation	01	LGF	MCQ
		Ulcerative colitis	Discuss the approach to the management of a patient with ulcerative colitis, its short and long-term complications, and the role of surveillance colonoscopies in the prevention of colorectal malignancies.	01	LGF	MCQ
		Crohn's Disease	Discuss the approach to the management of a patient with Crohn's disease, its short and long-term complications, and extra intestinal manifestations.	01	LGF	MCQ
		Colorectal cancer	Discuss the approach to the management	01	LGF	MCQ

		of a patient with suspected colorectal cancer and its staging			
	Pediatrics surgery	Hirschsprung's disease	Explain the etiology, clinical features, investigations, treatment of a child with Hirschsprung's disease.	01	LGF MCQ