

SURGERY DEPARTMENT

Theory lecture schedule of general Surgery for 3rd professional year MBBS

Topic: Metabolic response to injury	
SU1.1	Describe Basic concepts of homeostasis, enumerate the metabolic changes in injury and their mediators.
SU1	Describe the factors that affect the metabolic response to injury.
SU1.3	Describe basic concepts of perioperative care.
Topic: Shock	
SU2.1	Describe Pathophysiology of shock, types of shock & principles of resuscitation including fluid replacement and monitoring.
SU2.2	Describe the clinical features of shock and its appropriate treatment.
SU2.3	Communicate and counsel patients and families about the treatment and prognosis of shock demonstrating empathy and care
Topic: Blood and blood components	
SU3.1	Describe the Indications and appropriate use of blood and blood products and complications of blood transfusion.
SU3.2	Observe blood transfusions.
SU3.3	Counsel patients and family/ friends for blood transfusion and blood donation.
Topic: Burns	
SU4.1	Elicit document and present history in a case of Burns and perform physical examination. Describe Pathophysiology of Burns.
SU4.2	Describe Clinical features, Diagnose type and extent of burns and plan appropriate treatment.
SU4.3	Discuss the Medicolegal aspects in burn injuries
SU4.4	Communicate and counsel patients and families on the outcome and rehabilitation demonstrating empathy and care
Topic: Wound healing and wound care	
SU5.1	Describe normal wound healing and factors affecting healing.
SU5.2	Elicit, document and present a history in a patient presenting with wounds.
SU5.3	Differentiate the various types of wounds, plan and observe management of wounds.
SU5.4	Discuss medico legal aspects of wounds
Topic: Surgical infections	
SU6.1	Define and describe the aetiology and pathogenesis of surgical Infections
SU6.2	Enumerate Prophylactic and therapeutic antibiotics Plan appropriate management
Topic: Surgical Audit and Research	
SU7.1	Describe the principles and steps of clinical research in General Surgery
Topic: Ethics	
SU8.1	Describe the principles of Ethics as it pertains to General Surgery
SU8.2	Demonstrate Professionalism and empathy to the patient undergoing General

	Surgery
SU8.3	Discuss Medico-legal issues in surgical practice
Topic: Investigation of surgical patient	
SU9.1	Choose appropriate biochemical, microbiological, pathological, imaging investigations and interpret the investigative data in a surgical patient
SU9.2	Biological basis for early detection of cancer and multidisciplinary approach in management of cancer
SU9.3	Communicate the results of surgical investigations and counsel the patient appropriately
Topic: Pre, intra and post- operative management.	
SU10.1	Describe the principles of perioperative management of common surgical procedures
SU10.2	Describe the steps and obtain informed consent in a simulated environment
SU10.3	Observe common surgical procedures and assist in minor surgical procedures; Observe emergency lifesaving surgical procedures.
SU10.4	Perform basic surgical Skills such as First aid including suturing and minor surgical procedures in simulated environment
Topic: Anaesthesia and pain management	
SU11.1	Describe principles of Preoperative assessment.
SU11.2	Enumerate the principles of general, regional, and local Anaesthesia.
SU11.3	Demonstrate maintenance of an airway in a mannequin or equivalent
SU11.4	Enumerate the indications and principles of day care General Surgery
SU11.5	Describe principles of providing post-operative pain relief and management of chronic pain.
SU11.6	Describe Principles of safe General Surgery
Topic: Nutrition and fluid therapy	
SU12.1	Enumerate the causes and consequences of malnutrition in the surgical patient
SU12.2	Describe and discuss the methods of estimation and replacement of the fluid and electrolyte requirements in the surgical patient
SU12.3	Discuss the nutritional requirements of surgical patients, the methods of providing nutritional support and their complications
Topic: Transplantation	
SU13.1	Describe the immunological basis of organ transplantation
SU13.2	Discuss the Principles of immunosuppressive therapy.Enumerate Indications, describe surgical principles, management of organ transplantation
SU13.4	Counsel patients and relatives on organ donation in a simulated environment
Topic: Basic Surgical Skills	

SU14.1	Describe Aseptic techniques, sterilization and disinfection.
SU14.2	Describe Surgical approaches, incisions and the use of appropriate instruments in Surgery in general.
SU14.3	Describe the materials and methods used for surgical wound closure and anastomosis (sutures, knots and needles)
SU14.4	Demonstrate the techniques of asepsis and suturing in a simulated environment
Topic: Biohazard disposal	
SU15.1	Describe classification of hospital waste and appropriate methods of disposal.
Topic: Minimally invasive General Surgery	
SU16.1	Minimally invasive General Surgery: Describe indications advantages and disadvantages of Minimally invasive General Surgery
Topic: Trauma	
SU17.1	Describe the Principles of FIRST AID
SU17.2	Demonstrate the steps in Basic Life Support. Transport of injured patient in a simulated environment
SU17.3	Describe the Principles in management of mass casualties
SU17.4	Describe Pathophysiology, mechanism of head injuries
SU17.5	Describe clinical features for neurological assessment and GCS in head injuries
SU17.6	Choose appropriate investigations and discuss the principles of management of head injuries
SU17.7	Describe the clinical features of soft tissue injuries. Choose appropriate investigations and discuss the principle of management.
SU17.8	Describe the pathophysiology of chest injuries.
SU17.9	Describe the clinical features and principles of management of chest injuries.
SU17.10	Demonstrate Airway maintenance. Recognize and manage tension pneumothorax, hemothorax and flail chest in simulated environment
Topic: Skin and subcutaneous tissue	
SU18.1	Describe the pathogenesis, clinical features and management of various cutaneous and subcutaneous infections.
SU18.2	Classify skin tumors Differentiate different skin tumors and discuss their management.
SU18.3	Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan.
Topic: Developmental anomalies of face, mouth and jaws	
SU19.1	Describe the etiology and classification of cleft lip and palate
SU19.2	Describe the Principles of reconstruction of cleft lip and palate
Topic: Oropharyngeal cancer	
SU20.1	Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer
SU20.2	Enumerate the appropriate investigations and discuss the Principles of treatment.
Topic: Disorders of salivary glands	
SU21.1	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of salivary glands
SU21.2	Enumerate the appropriate investigations and describe the Principles of

	treatment of disorders of salivary glands
Topic: Endocrine General Surgery: Thyroid and parathyroid	
SU22.1	Describe the applied anatomy and physiology of thyroid
SU22.2	Describe the etiopathogenesis of thyroidal swellings
SU22.3	Demonstrate and document the correct clinical examination of thyroid swellings and discuss the differential diagnosis and their management
SU22.4	Describe the clinical features, classification and principles of management of thyroid cancer
SU22.5	Describe the applied anatomy of parathyroid
SU22.6	Describe and discuss the clinical features of hypo - and hyperparathyroidism and the principles of their management
Topic: Adrenal glands	
SU23.1	Describe the applied anatomy of adrenal glands
SU22.2	Describe the etiopathogenesis of thyroidal swellings
SU22.3	Demonstrate and document the correct clinical examination of thyroid swellings and discuss the differential diagnosis and their management
SU22.4	Describe the clinical features, classification and principles of management of thyroid cancer
SU22.5	Describe the applied anatomy of parathyroid
SU22.6	Describe and discuss the clinical features of hypo - and hyperparathyroidism and the principles of their management
Topic: Adrenal glands	
SU23.1	Describe the applied anatomy of adrenal glands
SU23.2	Describe the etiology, clinical features and principles of management of disorders of adrenal gland
SU23.3	Describe the clinical features, principles of investigation and management of Adrenal tumors
Topic: Pancreas	
SU24.1	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis.
SU24.2	Describe the clinical features, principles of investigation, prognosis and management of pancreatic endocrine tumours
SU24.3	Describe the principles of investigation and management of Pancreatic disorders including pancreatitis and endocrine tumors.
Topic: Breast	
SU25.1	Describe applied anatomy and appropriate investigations for breast disease
SU25.2	Describe the etiopathogenesis, clinical features and principles of management of benign breast disease including infections of the breast
SU25.3	Describe the etiopathogenesis, clinical features, Investigations and principles of treatment of benign and malignant tumours of breast
SU25.4	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast
SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent
Topic: Cardio-thoracic General Surgery- Chest - Heart and Lungs	
SU26.1	Outline the role of surgery in the management of coronary heart disease, valvular heart diseases and congenital heart diseases

SU26.4	Describe the etiology, pathogenesis, clinical features of tumors of lung and the principles of management
Topic: Vascular diseases	
SU27.1	Describe the etiopathogenesis, clinical features, investigations and principles of treatment of occlusive arterial disease.
SU27.2	Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease
SU27.3	Describe clinical features, investigations and principles of management of vasospastic disorders
SU27.4	Describe the types of gangrene and principles of amputation
SU27.5	Describe the applied anatomy of venous system of lower limb
SU27.6	Describe pathophysiology, clinical features, Investigations and principles of management of DVT and Varicose veins
SU27.7	Describe pathophysiology, clinical features, investigations and principles of management of Lymph edema, lymphangitis and Lymphomas
SU27.8	Demonstrate the correct examination of the lymphatic system
Topic: Abdomen	
SU28.1	Describe pathophysiology, clinical features, Investigations and principles of management of Hernias.
SU28.2	Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias
SU28.3	Describe causes, clinical features, complications and principles of management of peritonitis
SU28.4	Describe pathophysiology, clinical features, investigations and principles of management of Intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumors
SU28.5	Describe the applied Anatomy and physiology of esophagus
SU28.6	Describe the clinical features, investigations and principles of management of benign and malignant disorders of esophagus
SU28.7	Describe the applied anatomy and physiology of stomach
SU28.7	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophic pyloric stenosis, Peptic ulcer disease, Carcinoma stomach
SU28.9	Demonstrate the correct technique of examination of a patient with disorders of the stomach
SU28.10	Describe the applied anatomy of liver. Describe the clinical features, Investigations and principles of management of liver abscess, hydatid disease, injuries and tumors of the liver
SU28.11	Describe the applied anatomy of spleen. Describe the clinical features, investigations and principles of management of splenic injuries. Describe the post-splenectomy sepsis - prophylaxis
SU28.12	Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system
SU28.13	Describe the applied anatomy of small and large intestine
SU28.14	Describe the clinical features, investigations and principles of management of disorders of small and large intestine including neonatal obstruction and Short gut syndrome

SU28.15	Describe the clinical features, investigations and principles of management of diseases of Appendix including appendicitis and its complications.
SU28.16	Describe applied anatomy including congenital anomalies of the rectum and anal canal
SU28.17	Describe the clinical features, investigations and principles of management of common anorectal diseases
SU28.18	Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment plan
Topic: Urinary System	
SU29.1	Describe the causes, investigations and principles of management of Hematuria
SU29.2	Describe the clinical features, investigations and principles of management of congenital anomalies of genitourinary system
SU29.3	Describe the Clinical features, Investigations and principles of management of urinary tract infections
SU29.4	Describe the clinical features, investigations and principles of management of hydronephrosis
SU29.5	Describe the clinical features, investigations and principles of management of renal calculi
SU29.6	Describe the clinical features, investigations and principles of management of renal tumours
SU29.7	Describe the principles of management of acute and chronic retention of urine
SU29.8	Describe the clinical features, investigations and principles of management of bladder cancer
SU29.9	Describe the clinical features, investigations and principles of management of disorders of prostate
SU29.10	Demonstrate a digital rectal examination of the prostate in a mannequin or equivalent
SU29.11	Describe clinical features, investigations and management of urethral strictures
Topic: Penis, Testis and scrotum	
SU30.1	Describe the clinical features, investigations and principles of management of phimosis, paraphimosis and carcinoma penis.
SU30.2	Describe the applied anatomy clinical features, investigations and principles of management of undescended testis.
SU30.3	Describe the applied anatomy clinical features, investigations and principles of management of epididymo-orchitis
SU30.4	Describe the applied anatomy clinical features, investigations and principles of management of varicocele
SU30.5	Describe the applied anatomy, clinical features, investigations and principles of management of Hydrocele
SU30.6	Describe classification, clinical features, investigations and principles of management of tumours of testis