

# Women Medical College

Department of Medical Education & Research

Abbottabad

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Study Guide

Pediatrics

1-5 Year MBBS

# 1<sup>ST</sup> YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Foundation, Blood, MSK, CVS, Respiration	NIL					

# 2<sup>ND</sup> YEAR MBBS

MODULE	Subject	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Neurosciences-1A Module	Nil					
RENAL MODULE	Nil					
REPRODUCTION MODULE	Nil					
<b>Neurosciences-1B module</b>	Pediatric surgery	Cleft palate	Describe the pathogenesis, clinical features and management of a patient with cleft palate	01	LGF	MCQ
<b>Gastrointestinal, Hepatobiliary and Metabolism Module</b>	Pediatrics	Acute gastroenteritis	Describe the aetiology, clinical features, complications and treatment of acute gastroenteritis	01	LGF	MCQ
<b>ENDOCRINE MODULE</b>	Pediatrics	Growth charts	Describe the fundamentals of growth charts in pediatric practices	01	Interactive Lectures	MCQ

# 3<sup>RD</sup> YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
INFECTION AND INFLAMMATION MODULE		NIL				
MULTISYSTEM -I Module						
FOUNDATION-II MODULE						
PRIME MODULE						
BLOOD & IMMUNOLOGY - II MODULE	Pediatrics	Thalassemia	Describe Classification, Laboratory Investigation and management of Thalassemia	01	LGF, Case Discussion	MCQ, Viva
MSK -II Module	Paeds	Bone pains and aches in children	Common causes of bones aches and pains including Growing pains in children  Discuss nutritional Rickets causation, clinical presentation, Lab and Radiological findings and prevention	01	LGF, Case Discussion	MCQ, Viva
		Skeletal dysplasia's	Discuss clinical feature and differential diagnosis of the following •Achondroplasia • Osteopetrosis • Osteogenesis Imperfecta	01	LGF, Case Discussion	MCQ, Viva

MSK -II Module	Paeds	Juvenile Idiopathic arthritis (JIA)	Discuss criteria for classification of JIA  Discuss its clinical features and differential diagnosis.	01	LGF, Case Discussion	MCQ, Viva
		Congenital/Hereditary Myopathies	Discuss common congenital and hereditary myopathies, their genetics, causation, clinical presentation, diagnosis.	01	LGF, Case Discussion	MCQ, Viva
		Duchene Muscular dystrophy (DMD)	Describe DMD, its clinical presentation and differential diagnosis.	01	LGF, Case Discussion	MCQ, Viva
		Juvenile Dermatomyocytis (JDM)	Discuss diagnostic criteria of JDM  Discuss its clinical features differential diagnosis	01	LGF, Case Discussion	MCQ, Viva
CVS-II MODULE	Pediatrics	Cyanotic and acyanotic congenital heart disease	Delineate the difference between the acyanotic and cyanotic heart disease conditions  Enumerate the various defects, involving both conditions	1	LGF, Case Discussion	MCQ, Viva
		Rheumatic fever	Describe the etiology of rheumatic fever  Describe Duckett Johns criteria for diagnosis of RF  Discuss about primary and secondary prophylaxis of rheumatic heart disease	1	Interactive lecture/ Small group discussion	MCQ/Viva
RESPIRATORY - II MODULE	Pediatrics	Childhood Pneumonia	Classify pneumonia according to IMNCI (integrated management of neonatal and childhood illnesses)	01	Interactive lecture/ Small group discussion	MCQ/Viva

			<p>Describe the risk factors for recurrent pneumonia in childhood.</p> <p>Describe the etiological agents for Pneumonias according to the age of the child.</p> <p>Describe the indication for hospitalization of child with pneumonia.</p>			
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# 4<sup>TH</sup> YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
<b>EYE Module</b>	NIL					
<b>ENT Module</b>	NIL					
<b>RENAL-II MODULE</b>	Pediatrics	<b>Acute post streptococcal glomerulonephritis (ApGN)</b>	Define AGN and APGN  Describe the pathogenesis of Nephritic syndrome  Know clinical features and differential diagnosis of ApGN  Describe investigations required to reach a diagnosis of ApGN  Effectively describe the treatment requires for patients with ApGN  Define nephrotic syndrome.	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

<b>RENAL-II MODULE</b>	<b>Pediatrics</b>	<b>Nephrotic syndrome (NS)</b>	Describe pathophysiology of nephrotic syndrome  Classify NS in to its subtypes 69 Describe clinical features of NS  Enumerate and describe tests required to reach diagnosis of NS  Outline treatment steps in the management of NS  Know the complications of NS and describe its prognosis.	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		<b>Urinary tract infection (UTI)</b>	Describe the types of UTI.  Discuss prevention and management of UTI in children.	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>NEUROSCIENCES-II MODULE</b>	<b>Pediatrics</b>	<b>Cerebellar ataxias</b>	Describe the clinical features and management of Friedreich's Ataxia	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		<b>Meningitis</b>	Explain the aetiology, pathogenesis, clinical presentation, investigations and management of Acute pyogenic meningitis in children and neonates	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		<b>TBM</b>	Explain the aetiology, pathogenesis, clinical presentation, investigations and management of Acute pyogenic meningitis in children	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		<b>Hereditary neuropathies</b>	Describe the types, clinical features and management of hereditary neuropathies	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

Renal-II, Endocrine & Reproduction-II MODULE	Pediatrics	Short stature	Describe the method to measure and plot height; and calculate height velocity. and midparental, target height to allow early diagnosis of growth disorders in pediatric patients	02	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
Renal-II, Endocrine & Reproduction-II MODULE	Pediatrics		<p>Explain the diagnostic criteria that allow to differentiate causes of growth deficiency</p> <p>Discuss the tools for better communication with patients and families and coordination of multidisciplinary care</p> <p>Discuss treatment of growth hormone deficiency or other diseases responsible for short stature and their appropriate management</p>			
		Congenital hypothyroidism	<p>Discuss the types and clinical features of hypoparathyroidism</p> <p>Discuss investigations and treatment of Hypoparathyroidism</p>	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		Management of Type 1 Diabetes mellitus in children	<p>Enumerate the blood glucose parameters and the clinical signs for an early diagnosis of diabetes in a child.</p> <p>Recognize how diabetes may present in young children or babies, to make the diagnosis and prevent coma or death</p> <p>Plan investigations and management plan for a newly diagnosed and a known diabetic child.</p> <p>Enumerate the different types of insulins.</p>	02	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

GIT & HEPATOBILIARY-II MODULE	<b>Pediatrics</b>	Hereditary hyperbilirubinemia s	Classify hereditary hyperbilirubinemia s  Explain the types, clinical features, investigations, and management of different hereditary hyperbilirubinemia s	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		Acute hepatitis A	Explain the Etiology, pathogenesis, clinical features, investigations, and treatment of Acute viral hepatitis A infection	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
GIT & HEPATOBILIARY-II MODULE	Pediatrics	Lactase deficiency	Describe the clinical features, investigations, complications, and management of Lactase deficiency	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		Infectious diarrhea	Describe the etiology, clinical features, investigations, complications, and management of infectious diarrheas in children		LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		Celiac disease	Describe the etiology, clinical features, investigations, complications, and management of Celiac disease		LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

# FINAL YEAR MBBS

MODULE	SUBJECT	TOPIC	LOS	Hours	MITs (Mode of teaching)	Assessments
Foundation-III MODULE	Pediatrics	Pediatric history taking and physical examination	Take history from parents from neonatal age to pediatric age.  Perform physical examination in a neonate and pediatric age group patient including growth parameters.	01	SGD, Clinical Discussion	<b>OSCE/ Structured viva/Long case/ short case</b>
		Developmental assessment	Perform development assessment of a child  Explain the components of developmental assessment in children of different age groups	01	SGD, Clinical Discussion	<b>OSCE/ Structured viva/Long case/ short case</b>
Blood & Immunology-III	Pediatrics	Anemia	. Evaluate a neonate, infant and child with anemia (congenital/acquired).  Explain the diagnostic workup needed for different age group in Pediatric patients with anemias of inadequate production and hemolytic anaemia.  Classify anemias based on history, physical examination and relevant investigations considering different age groups	03	SGD, Clinical Discussion	<b>OSCE/ Structured viva/Long case/ short case</b>
			Manage an infant and child with iron deficiency anemia and megaloblastic anemia	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva</b>
			Manage a neonate and infant with hereditary anemias	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva</b>

Blood & Immunology-II	Pediatrics	Anemia	<p>Manage a child with hemolytic anemias:</p> <ul style="list-style-type: none"> <li>• 7Thalassemia</li> <li>• Sickle cell anemia</li> <li>• Hereditary spherocytosis</li> <li>• G6PD deficiency</li> </ul>	02	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
			<p>Manage a child with anemia resulting from bone marrow failure (Aplastic anemia)</p> <p>Perform physical examination of a neonate, infant and child with anemia</p> <p>Perform general physical and systemic examination keeping in mind the hematological problem for a specific Pediatric age group</p> <p>Counsel a parent of a neonate, infant and child with Thalassemia major</p>	02	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
		Leukopenia	<p>Evaluate a report of peripheral blood film</p> <p>Explain the diagnostic approach to a child with Leukopenia</p> <p>Take a history of a child/infant with leukopenia / aplastic anemia</p>	02	SGD, Clinical Discussion	<b>OSCE/ Structure d viva/Long case/ short case</b>
		Leukemias	<p>Explain the diagnostic approach to a child with leukocytosis</p> <p>Classify Leukemias</p> <p>Explain the diagnostic approach to a patient with suspected leukemia</p> <p>Explain the management of a child with acute Leukemias</p>	01	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

			<p>Take history and perform physical examination of a patient with leukocytosis</p> <p>Counsel a parent with a child with ALL.</p>			
<p>Blood &amp; Immunology-</p>	<p>Pediatrics</p>	Splenomegaly	<p>Classify the causes of splenomegaly in Paediatric age group</p> <p>Explain the diagnostic approach to a child with splenomegaly</p>	01	LGF, SGD, Clinical Discussion	MCQ/ OSCE/ Structure d viva
		Definition of terms	<p>Define Petechiae, purpura, ecchymosis</p>	01	LGF, SGD, Clinical Discussion	MCQ/ OSCE/ Structure d viva
		Bleeding and clotting disorders	<p>Explain the diagnostic approach to a child/infant with bleeding disorder</p> <p>Classify clotting disorders and explain their etiologies</p> <p>Explain the coagulation screen</p> <p>Interpret the common hematological parameters in a child with bleeding disorder (Platelets count, BT, CT, PT, APTT, Fibrinogen levels, FDPs)</p>	01	LGF, SGD, Clinical Discussion	MCQ/ OSCE/ Structure d viva

			<p>Explain the management of Von Willebrand disease</p> <p>Explain the management of a child with Hemophilia A</p> <p>Explain the management of a child with Idiopathic Thrombocytopenic Purpura</p> <p>Explain the dosage and administration of factor VIII in a child/infant in different situations like accidents, fall of deciduous teeth, surgery etc.</p> <p>Take history and perform physical examination of a child with history of bleeding disorder</p>	02	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/short case</b>
<b>Musculoskeletal System-III</b>	<b>Pediatrics</b>	<b>Orthopedic evaluation of a child Management of pediatric arthritides</b>	<p>Perform orthopedic evaluation of a neonate and child</p> <p>Explain the differential diagnosis, diagnostic workup, and therapeutic approaches to a pediatric patient with mono-arthritis</p> <p>Explain the differential diagnosis, diagnostic workup and therapeutic approaches to a pediatric patient with symmetrical polyarthritis</p> <p>Explain the differential diagnosis, diagnostic workup, and therapeutic approaches to a pediatric patient with oligoarticular arthritis</p>	01	SGD, Clinical Discussion	<b>OSCE/ Structure d viva/Long case/ short case</b>



**Pediatrics**

<b>Management of common arthritic disorders in children</b>	<p>Discuss the management of patient and complications with Juvenile idiopathic arthritis</p> <p>Take history and perform a physical examination of a child with Arthritis</p> <p>Counsel a child and his parents with new onset Juvenile Chronic arthritis</p>	<b>01</b>	SGD, Clinical Discussion	<b>OSCE/ Structure d viva/Long case/ short case</b>
<b>Rickets and Osteomalacia</b>	<p>Discuss the diagnostic approach to a child with Rickets</p> <p>Discuss the etiology, clinical, radiological, and laboratory features of Rickets and Osteomalacia and their treatments</p> <p>Take history and perform a physical examination of a patient with Rickets</p>	<b>01</b>	SGD, Clinical Discussion	<b>OSCE/ Structure d viva/Long case/ short case</b>

<p align="center"><b>Musculoskeletal System-III</b></p>	<p align="center"><b>Pediatrics</b></p>	<p align="center"><b>Muscular dystrophies</b></p>	<p>Classify muscular dystrophies</p> <p>Explain the pathogenesis, clinical features, differential diagnosis, management and prognosis of Duchenne muscular dystrophy</p> <p>Explain the pathogenesis, clinical features, differential diagnosis, management and prognosis of myotonic dystrophy</p> <p>Compare the clinical features and prognosis of Becker, limb-girdle, and facioscapulohumeral dystrophies</p> <p>Take history and perform a physical examination of a child with muscular dystrophy</p> <p>Counsel the parents of a child suffering from Muscular dystrophy</p>		<p>LGF, SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>
<p align="center"><b>Cardiorespiratory Module</b></p>	<p align="center"><b>Pediatrics</b></p>	<p align="center"><b>Supraventricular tachycardia</b></p>	<p>Discuss the clinical presentation and the diagnostic workup needed for Supraventricular tachycardia in Pediatric patients</p> <p>Counsel a parent of a neonate, infant and child with Supraventricular tachycardia</p>	<p align="center"><b>01</b></p>	<p>LGF, SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>
		<p align="center"><b>Acyanotic heart disease</b></p>	<p>Discuss the clinical presentation and the diagnostic workup needed for Acyanotic heart</p>	<p align="center"><b>01</b></p>	<p>LGF, SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>

**Cardiorespiratory  
Module**

		disease in Pediatric patients  Discuss the management of an infant and child with Acyanotic heart disease			
		<b>Ventricular Septal Defect (VSD)</b>	Discuss the diagnostic workup and management for Ventricular Septal Defect.	01	LGF, SGD, Clinical Discussion  <b>MCQ/ OSCE/ Structure d viva</b>
		<b>Atrial Septal Defect (ASD)</b>	Discuss the diagnostic workup and management for Atrial Septal Defect	01	LGF, SGD, Clinical Discussion  <b>MCQ/ OSCE/ Structure d viva</b>
		<b>Aortic stenosis</b>	Discuss the diagnostic and management workup for Aortic stenosis	01	LGF, SGD, Clinical Discussion  <b>MCQ/ OSCE/ Structure d viva</b>
	<b>Pediatrics</b>	<b>Coarctation of aorta</b>	Explain the etiology clinical presentation of Coarctation of aorta  Discuss the diagnostic workup and management for Coarctation of aorta	01	LGF, SGD, Clinical Discussion  <b>MCQ/ OSCE/ Structure d viva</b>
		<b>Cyanotic heart disease</b>	Discuss the clinical presentation and the diagnostic workup needed for Cyanotic heart disease in Pediatric patients  Discuss the management of an infant and child with Cyanotic heart disease  Perform physical examination of a neonate and infant with Cyanotic heart disease  Counsel a parent of a neonate, infant and child with Cyanotic heart disease	01	SGD, Clinical Discussion  <b>OSCE/ Structure d viva/Long case/ short case</b>

**Cardiorespiratory  
Module**

**Pediatrics**

<b>Tetralogy of Fallot (TOF)</b>	<p>Explain the etiology and clinical presentation of Tetralogy of Fallot</p> <p>Discuss the diagnostic workup and management for Tetralogy of Fallot</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Transposition of Great Arteries (TGA)</b>	<p>Explain the etiology and clinical presentation of Transposition of Great Arteries</p> <p>Discuss the diagnostic workup and management for Transposition of Great Arteries</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Ebstein anomaly</b>	<p>Explain the etiology and clinical presentation of Ebstein anomaly</p> <p>Discuss the diagnostic workup and management for Ebstein anomaly</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Total Anomalous Pulmonary Venous Drainage or Connections (TAPVC)</b>	<p>Explain the etiology and clinical presentation of TAPVC</p> <p>Discuss the diagnostic workup and management for TAPVC</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Truncus arteriosus</b>	<p>Explain the etiology and clinical presentation of Truncus arteriosus</p> <p>Discuss the diagnostic workup and management for Truncus arteriosus</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Tricuspid atresia</b>	<p>Explain the etiology and clinical presentation of Tricuspid atresia</p> <p>Discuss the diagnostic workup and management for Tricuspid atresia</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

**Cardiorespiratory  
Module**

**Pediatrics**

<b>Congestive Cardiac Failure (CCF)</b>	Discuss the clinical presentation and the diagnostic workup and management needed for Congestive Cardiac Failure in Pediatric patients  Take history and perform physical examination of a neonate, infant and child with Congestive Cardiac Failure		LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
	Counsel the parents of a neonate, infant and child with Congestive Cardiac Failure		SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Cardiomyopathy</b>	Discuss the management algorithm of an infant and child with Cardiomyopathy	<b>01</b>	SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Cystic fibrosis</b>	Explain the etiology and clinical presentation of Cystic fibrosis  Discuss the diagnostic workup and management for Cystic fibrosis	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>
<b>Rheumatic fever</b>	Discuss the clinical presentation and the diagnostic workup needed for Rheumatic fever in Pediatric patients  Discuss the management of an infant and child with Rheumatic fever  Perform physical examination of a neonate, infant with Rheumatic fever  Counsel a parent of a neonate, infant and child with Rheumatic fever	<b>01</b>	SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva</b>

**Cardiorespiratory  
Module**

**Pediatrics**

<p><b>Acute Respiratory Infections (ARI)</b></p>	<p>Explain the clinical presentation and diagnostic workup needed for Acute Respiratory Infections</p> <p>Discuss the management of an infant and child with Acute Respiratory Infections</p> <p>Perform physical examination of a neonate, infant with Acute Respiratory Infections</p> <p>Counsel a parent of a neonate, infant and child with Acute Respiratory Infections</p>	<p>01</p>	<p>SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>
<p><b>Croup</b></p>	<p>Explain the clinical presentation and diagnostic workup needed for Croup</p> <p>Discuss the management of an infant and child with Croup</p>	<p>01</p>	<p>LGF,SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>
<p><b>Pneumonia</b></p>	<p>Explain the clinical presentation and diagnostic workup needed for Pneumonia</p> <p>Discuss the management of an infant and child with Pneumonia</p>	<p>01</p>	<p>LGF,SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>
<p><b>Rheumatic fever</b></p>	<p>Discuss the clinical presentation and the diagnostic workup needed for Rheumatic fever in Pediatric patients.</p> <p>Discuss the management of an infant and child with Rheumatic fever.</p> <p>Perform physical examination of a neonate,</p>	<p>01</p>	<p>LGF,SGD, Clinical Discussion</p>	<p><b>MCQ/ OSCE/ Structure d viva</b></p>

<b>Cardiorespiratory Module</b>		<p>infant with Rheumatic fever.</p> <p>Counsel a parent of a neonate, infant and child with Rheumatic fever.</p>			
	<b>Infective endocarditis</b>	<p>Discuss the clinical presentation and the diagnostic workup needed for Infective endocarditis in Pediatric patient</p> <p>Discuss the management of an infant and child with Infective endocarditis.</p> <p>Perform physical examination of a neonate, infant with Infective endocarditis.</p> <p>Counsel a parent of a neonate, infant and child with Infective endocarditis.</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/short case/long case</b>
	<b>Myocarditis</b>	<p>Discuss the clinical presentation and the diagnostic workup needed for Myocarditis</p> <p>Discuss the management of an infant and child with Myocarditis.</p> <p>Perform physical examination of a neonate, infant with Myocarditis.</p> <p>Counsel a parent of a neonate, infant and child with Myocarditis.</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>

		Discuss the clinical presentation, the diagnostic workup and management for		LGF, SGD, Clinical	<b>MCQ/ OSCE/ Structured viva/</b>
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<b>Renal Module</b>	<b>Pediatrics</b>	<b>Nephrotic Syndrome</b>	<p>suspected GN and Nephrotic Syndrome in Pediatric patients.</p> <p>Take a history from a patient with Nephrotic Syndrome.</p> <p>Perform physical examination of a patient with suspected GN and Nephrotic Syndrome.</p> <p>Effectively counsel a child and his/her parents with nephrotic syndrome.</p>	<b>01</b>	Discussion	<b>short case/long case</b>
		<b>Acute Kidney Injury (AKI)</b>	Discuss the clinical presentation, the diagnostic workup and management for Acute Kidney Injury in Pediatric patients.	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/</b>
		<b>Chronic Renal Failure (CKD)</b>	Discuss the clinical presentation, the diagnostic workup and management for Chronic Renal Failure in Pediatric patients.	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
<b>Neuroscience s-III</b>	<b>Pediatrics</b>	<b>Epilepsy</b>	<p>Discuss the diagnostic work up and management for children with seizures and Epilepsy</p> <p>Perform a consultation with a child having epilepsy under supervision emphasizing history and examination.</p> <p>Write a prescription for a child with Tonic-Clonic and Petit-mal epilepsy Affective Domain Counsel and educate the Parents/guardian of a child with epilepsy.</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
			Discuss the diagnostic work up and management for children with Headache	<b>01</b>	LGF, SGD, Clinical	<b>MCQ/ OSCE/ Structure d viva/</b>

				Discussion	<b>short case/long case</b>
		<b>Meningitis</b>	<p>Discuss the diagnostic work up and managements for children suspected of Meningitis</p> <p>Explain the short term and long-term sequelae of meningitis</p> <p>Describe assessing the initial triad symptoms of meningitis in children</p>	<b>01</b>	LGF, SGD, Clinical Discussion <b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
		<b>Big head</b>	Explain the diagnostic and therapeutic approach to a child with big head	<b>01</b>	LGF, SGD, Clinical Discussion <b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
		<b>Hereditary neuropathies</b>	Classify hereditary neuropathies and discuss their clinical features, investigations, and management	<b>01</b>	LGF, SGD, Clinical Discussion <b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
	<b>Pediatric surgery</b>	<b>Congenital malformations - Spina Bifida/myelomeningocele</b>	<p>Explain the clinical features, investigations, and management of a pa child with Spina Bifida/Myelomeningocele</p> <p>Discuss and counsel the pts regarding the changes in the lifestyle of patients with congenital malformations</p>	<b>01</b>	LGF, SGD, Clinical Discussion <b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
	<b>Pediatrics</b>	<b>Protein calorie malnutrition</b>	<p>Discuss the causes of malnutrition in developing countries - Describe the different forms of protein-energy malnutrition -</p> <p>Describe the symptoms of severe protein-energy malnutrition in children -</p> <p>Outline the treatment needed</p>	<b>01</b>	LGF, SGD, Clinical Discussion <b>MCQ/ OSCE/ Structured viva/ short case/long case</b>

**Multisystem-II**

	<p>to treat a malnourished child</p> <ul style="list-style-type: none"> <li>- Define the criteria that classifies protein-energy malnutrition</li> <li>Discuss the causes of malnutrition in developing countries - Describe the different forms of protein-energy malnutrition -</li> <li>Describe the symptoms of severe protein-energy malnutrition in children -</li> <li>Outline the treatment needed to treat a malnourished child</li> <li>-</li> <li>Define the criteria that classifies protein-energy malnutrition</li> <li>Explain the different causes, forms, classification, clinical features, and management of PMC</li> </ul>	<b>01</b>		
<b>Porphyria</b>	<p>Classify porphyria.</p> <p>Explain the etiology, pathogenesis, clinical features and treatment of different types of porphyria</p> <p>Down syndrome</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
<b>Down syndrome</b>	<p>Explain the risk factor, chromosomal aberrations, clinical features and complications of Down Syndrome</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
<b>Collagen disorders</b>	<p>Classify collagen disorders and their clinical features</p>	<b>01</b>		

<b>Multisystem-II</b>	<b>Pediatrics</b>	<b>Glycogen storage diseases</b>	Classify glycogen storage disease and their clinical features		LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
		<b>Mucopolysaccharidoses</b>	Describe the clinical features and complications of mucopolysaccharidosis	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
		<b>Galactosemia and Phenylketonuria</b>	Describe the clinical features, investigations and complications of Galactosemia and Phenylketonuria			
		<b>Kawasaki disease</b>	Explain the clinical features, investigations, management, prognosis and complications of Kawasaki syndrome  Explain the clinical features, investigations, management, prognosis and complications of SLE in children	<b>02</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
<b>Endocrine &amp; ReproductionIII</b>	<b>Pediatrics</b>	<b>Short stature</b>	Discuss the diagnostic approach and management of a child with short stature.	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
		<b>Thyroid disorders</b>	Explain the neonatal screening for hypothyroidism  Explain the diagnostic approach and management of a child with suspected Cretinism  Discuss the complications of Cretinism  Take history and perform physical examination of a	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>

<b>Endocrine &amp; ReproductionIII</b>	<b>Pediatrics</b>		child with hypothyroidism/cretinism			
		<b>Type-1 DM</b>	<p>Explain the diagnostic approach, screening, and management of a Child with suspected Type-1 Diabetes Mellitus</p> <p>Take history and perform physical examination of a patient with Type 2 DM</p> <p>Counsel a newly diagnosed patient and parents with type 1 DM</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
		<b>The neonate</b>	<p>Discuss the types and management of common problems of preterm and term babies</p> <p>Discuss the principles of neonatal care</p> <p>Observe the care of a neonate in nursery</p> <p>Take history and perform physical examination of a neonate</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
<b>GIT Module</b>	<b>Pediatrics</b>	<b>Vomiting</b>	Explain the diagnostic and therapeutic approach to a neonate and infant with persistent vomiting.	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>
		<b>Hyperbilirubinemias</b>	<p>Discuss the diagnostic approach and management of a neonate and infant with jaundice.</p> <p>Take history and perform physical examination of a child with jaundice.</p> <p>Counsel a child and his parents with Gilbert syndrome.</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structure d viva/ short case/long case</b>

<b>GIT Module</b>	<b>Pediatrics</b>	<b>Malabsorption and celiac disease</b>	<p>Explain the diagnostic workup and management of a patient with Malabsorption due to celiac disease.</p> <p>Counsel a child and his/her parents regarding dietary advice regarding celiac disease</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
		<b>Acute diarrhea</b>	<p>Explain the diagnostic workup and management of a patient acute watery diarrhea</p> <p>Assess the state of hydration in a child with acute diarrhea</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
		<b>Chronic diarrhea</b>	<p>Explain the diagnostic workup and management of a patient with chronic diarrhea.</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>
	<b>Pediatrics surgery</b>	<b>Hirschsprung's disease</b>	<p>Explain the etiology, clinical features, investigations, treatment of a child with Hirschsprung's disease.</p>	<b>01</b>	LGF, SGD, Clinical Discussion	<b>MCQ/ OSCE/ Structured viva/ short case/long case</b>