



DEPARTMENT OF MEDICAL EDUCATION

5TH YEAR MBBS STUDY GUIDES

• CURRICULUM •



OUTCOME-BASED



INTEGRATED



STUDENT-CENTERED



COMMUNITY-ORIENTED



VALUE-DRIVEN

MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE
• MIRPUR (AJK), PAKISTAN •



APPROVED BY
ACADEMIC COUNCIL



ALIGNED WITH
PMDC MBBS CURRICULUM
2024 & HEC STANDARDS



PREPARED BY
DEPARTMENT OF
MEDICAL EDUCATION

VERSION
1.0

MOHI-UD-DIN ISLAMIC UNIVERSITY
A Chartered University



MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



FOUNDATION- III

5TH YEAR MBBS

BLOCK: N

DURATION: 2 WEEKS

MODULE CODE: MB5-N-FND-III-25



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

- Discuss the process of Evidence-based medicine/practice.
- Explain the concepts and processes of patient safety and types of medical errors.
- Explain the objectives and process of clinical audit and governance.
- Discuss the principles of communications skills, counseling, and breaking bad news.
- Discuss the psychological aspects of patient care in hospital and ambulatory care settings.
- Explain the concepts of surgical skills, perioperative, intraoperative, and postoperative care.
- Discuss the concepts of palliative and end-of-life care.
- Explain the concepts of developmental assessment in pediatrics.

3. Specific learning objectives

Theme-1:Thein-patient					
Subject	Topic	Hours	S. No	Domain of learning	Learning objectives:
Medical Education	Clinical decision making(Evidence-based Medicine)	1	1	Cognitive	DefineEvidenceBasedMedicine.
			2	Cognitive	Explainthestepsofevidence-based medicine/practice
			3	Cognitive	Discussthelevelsof evidence.
	Patientsafety	1	4	Cognitive	Explainthe conceptsof patient safety.
			5	Cognitive	Discussthetypes,etiology,andpreventi onofmedical errors.
	Clinicalgovernance andclinicalaudit	1	6	Cognitive	Explainthe componentsof clinical governance.
			7	Cognitive	Explainthe stepsof clinical audit.
	Patient and family counselling/breaking badnews	1	8	Cognitive	ExplainthestepsofSPIKESmodelofbre akingbadnews and counselling.
Psychiatry	Familyhealth education	1	9	Cognitive	Explainthe care of apatient at home especially for chronic illnesses
			10	Cognitive	Toenhancethecomplianceofbothphar macological and nonpharmacological management in acute and chronic illnesses
			11	Cognitive	Explainstrategies toreduces followup tertiary care visits
	Initial psychiatric assessment	1	12	Cognitive	Discusstheinitialpsychiatricassessmen tofa patient admitted.
Surgery	Basicsurgical skills	1	13	Cognitive	Explainthe principles of patientcare and safety in operationtheatre / surgical safety checklists
			14	Cognitive	Explainthe principles ofskin and abdominal incisions
			15	Cognitive	Explaintheprinciplesofwoundclosureand drain usageand diathermy
	Laparoscopican d robotic surgery	1	16	Cognitive	Explain the principles, advantages, disadvantages, indications,andcomplicationsofLaparoscop icand Robotic surgery.

	Surgical informed consent	1	17	Cognitive	Explain the types and components of informed consent in surgical practice.
	Nutrition and fluid therapy	1	18	Cognitive	Assess the fluid and electrolyte requirements in pre- and post-operative patients.
			19	Cognitive	Explain the different methods of providing nutritional support and their complications.
	Postoperative care	1	20	Cognitive	Explain the standards of postoperative care.
			21	Cognitive	Discuss the general and system specific postoperative complications.
Radiology	Diagnostic imaging	1	22	Cognitive	Describe the basic principles of radiation protection
			23	Cognitive	Explain the types and principles of different imaging techniques and their indications.
Medicine	End-of-Life and palliative care	1	24	Cognitive	Discuss the steps and prerequisites of end of life and palliative care.
	Geriatric Care		25	Cognitive	Explain the concepts of geriatric care and problems associated with it.
Pediatrics	Pediatric history taking and physical examination	1	26	Psychomotor	Take history from parents from neonatal age to pediatric age.
			27	Psychomotor	Perform physical examination in a neonate and pediatric age group patient including growth parameters.
	Developmental assessment	1	28	Cognitive	Perform development assessment of a child
			29	Cognitive	Explain the components of developmental assessment in children of different age groups

Theme-2: Perioperative Care

Subject	Topic	Hours	S.No	Domain of learning	Learning objectives:
Surgery	Enhanced Recovery after Surgery (ERAS)	1	30	Cognitive	Describe the ERAS protocol
			31	Cognitive	Discuss the components of ERAS protocol
			32	Cognitive	Explain the benefits of ERAS

	Pain Management	1	33	Cognitive	Evaluate a patient with postoperative pain
			34	Cognitive	Manage a patient with pain during perioperative phase
			35	Cognitive	Discuss the pathophysiological consequences of postoperative pain
Medicine	Preoperative evaluation and fitness for anesthesia and surgery	1	36	Cognitive	Evaluate a patient for fitness for surgery and anesthesia.

MIT: Mode of information transfer. E.g. lecture, SGD, DSL, Practical, skill lab etc etc.

MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



BLOOD & IMMUNOLOGY-III

5TH YEAR MBBS

BLOCK: N

DURATION: 2 WEEKS

MODULE CODE: MB5-N-BLD-III-26



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

- Explain the etiology, clinical features, diagnostic workup, and management of a patient with Anemia.
- Explain the etiology, clinical features, diagnostic workup, and management of a patient with anemia of pregnancy.
- Explain the etiology, clinical features, diagnostic workup, and management of a patient with Leukopenia.
- Explain the etiology, clinical features, diagnostic workup, and management of a patient with Leukocytosis.
- Explain the management and complications of a patient with hematological malignancies.
- Discuss the diagnostic workup of a patient with splenomegaly.
- Explain the etiology, clinical features, diagnostic workup, and management of a patient with bleeding and clotting disorders.
- Explain the etiology, clinical features, diagnostic workup, and management of a patient with anemia of pregnancy.

3. Specific learning objectives

Theme-1: Pallor					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Pediatrics	Anemia	1	1	Cognitive	Evaluate a neonate, infant and child with anemia (congenital/acquired).
			2	Cognitive	Explain the diagnostic workup needed for different age group in Pediatric patients with anemias of inadequate production and hemolytic anaemia.
			3	Cognitive	Classify anemias based on history, physical examination and relevant investigations considering different age groups
		1	4	Cognitive	Manage an infant and child with iron deficiency anemia and megaloblastic anemia
			5	Cognitive	Manage a neonate and infant with hereditary anemias
		2	6	Cognitive	Manage a child with hemolytic anemias: • 7Thalassemia • Sick cell anemia • Hereditary spherocytosis • G6PD deficiency

			7	Cognitive	Manage a child with anemia resulting from bone marrow failure (Aplastic anemia)
			8	Psychomotor skills	Perform physical examination of a neonate, infant and child with anemia
			9	Psychomotor skills	Perform general physical and systemic examination keeping in mind the hematological problem for a specific Pediatric age group
			10	Affective domain	Counsel a parent of a neonate, infant and child with Thalassemia major
Medicine	Anemias	1	11	Cognitive	Evaluate a patient with anemia
			12	Cognitive	Explain the diagnostic workup of a patient with anemias
			13	Cognitive	Classify anemias based on history, physical examination and relevant investigations
		1	14	Cognitive	Manage a patient with iron deficiency anemia
			15	Cognitive	Manage a patient with hereditary anemias
			16	Cognitive	Manage a patient with hemolytic anemias (hereditary and acquired)
			17	Cognitive	Manage a patient with anemia resulting from bone marrow failure
			18	Psychomotor skills	Take a history from a patient with anemias
			19	Psychomotor skills	Perform physical examination of a patient with anemias
			20	Psychomotor skills	Perform hematological examination
			21	Affective domain	Counsel a patient with different type of anemias
Gynaecology	Anemia in pregnancy	1	22	Cognitive	List the various causes of anemia in pregnancy.
			23	Cognitive	Describe Feto-maternal complications of anemia in pregnancy.
			24	Cognitive	Interpret the blood picture of a pregnant patient with anemia
			25	Cognitive	Outline diagnostic workup and management plan of a patient with anemia in pregnancy.
			26	Psychomotor	Take history and perform physical examination of a patient with anemia in pregnancy.
			27	Affective	Counsel a pregnant patient with anemia.

Theme-2: Fever

Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Pediatrics	Leukopenia	1	28	Cognitive	Evaluate a report of peripheral blood film
			29	Cognitive	Explain the diagnostic approach to a child with Leukopenia
			30	Psychomotor	Take a history of a child/infant with leukopenia/aplastic anemia
	Leukemias	1	31	Cognitive	Explain the diagnostic approach to a child with leukocytosis
			32	Cognitive	Classify Leukemias
			33	Cognitive	Explain the diagnostic approach to a patient with suspected leukemia
			34	Cognitive	Explain the management of a child with acute Leukemias
			35	Psychomotor	Take history and perform physical examination of a patient with leukocytosis
			36	Affective	Counsel a parent with a child with ALL.
	Splenomegaly	1	37	Cognitive	Classify the causes of splenomegaly in Paediatric age group
			38	Cognitive	Explain the diagnostic approach to a child with splenomegaly
Medicine	Leukopenia	1	39	Cognitive	Evaluate a peripheral blood film
			40	Cognitive	Explain the diagnostic approach to a patient with Leukopenia
			41	Psychomotor	Take a history from a patient with leukopenia and aplastic anemia
	Leukemias	2	42	Cognitive	Explain the diagnostic approach to a patient with leukocytosis
			43	Cognitive	Classify Leukemias
			44	Cognitive	Explain the management of a patient with acute Leukemias
			45	Cognitive	Explain the management of a patient with chronic Leukemias
	Splenomegaly	2	46	Psychomotor	Take history and perform physical examination of a patient with leukocytosis
			47	Cognitive	Classify the causes of splenomegaly
			48	Cognitive	Explain the diagnostic approach to a patient with splenomegaly
	Lymphaden		49	Cognitive	Classify the causes of generalized lymphadenopathy

	opathy		50	Cognitive	Explain the diagnostic approach to a patient with generalized lymphadenopathy
			51	Cognitive	Classify lymphomas
			52	Cognitive	Explain the management of a patient with Lymphoma (Hodgkin's and non-Hodgkin's)
			53	Cognitive	Explain tumor lysis syndrome and its management
			54	Cognitive	Explain the common adverse effects of chemotherapeutic agents used in hematological malignancies and their management and prevention.
			55	Affective	Counsel a patient with newly diagnosed hematological malignancy

Theme-3: Bleeding

Pediatrics	Definition of terms	1	56	Cognitive	Define Petechiae, purpura, ecchymosis
	Bleeding and clotting disorders	1	57	Cognitive	Explain the diagnostic approach to a child/infant with bleeding disorder
			58	Cognitive	Classify clotting disorders and explain their etiologies
			59	Cognitive	Explain the coagulation screen
			60	Cognitive	Interpret the common hematological parameters in a child with bleeding disorder (Platelet count, BT, CT, PT, APTT, Fibrinogen levels, FDPs)
		2	61	Cognitive	Explain the management of Von Willebrand disease
			62	Cognitive	Explain the management of a child with Hemophilia A
			63	Cognitive	Explain the management of a child with Idiopathic Thrombocytopenic Purpura
			64	Cognitive	Explain the dosage and administration of factor VIII in a child/infant in different situations like accidents, fall of deciduous teeth, surgery etc.
			65	Psychomotor	Take history and perform physical examination of a child with history of bleeding disorder
Medicine	Bleeding and clotting disorder	2	66	Cognitive	Explain the diagnostic approach to a patient with bleeding disorder

	ders		67	Cognitive	Classifyhypercoagulablestatesandtheirmanagemen tand preventionofthrombosis
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MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



MUSCULOSKELETAL III

5TH YEAR MBBS

BLOCK: N

DURATION: 2 WEEKS

MODULE CODE: MB5-N-MSK-III-27



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

1. Discuss the diagnostic and therapeutic approach to children and adult patients with arthritides.
2. Explain the surgical management of different arthritic disorders.
3. Elaborate on the management of osteoporosis, Rickets, and Osteomalacia.
4. Explain the types of spine diseases and their management.
5. Explain the types, etiology, clinical features, and management of primary muscle diseases including poliomyelitis.
6. Discuss different dermatological conditions in terms of etiology, classification, investigations, and management.
7. Take history and examine a patient with an arthritic condition.
8. Counsel a patient with chronic arthritic condition, psoriasis, and muscular dystrophies.

3. Specific learning objectives

Theme-1:Jointpains					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Medicine	Introduction to arthritides: - Classification - Serological tests	2	1	Cognitive	Classify autoimmune diseases of joints based on the pattern of joint involvement A) Peripheral - Symmetrical - Oligoarticular - Monoarticular B) Axial
		2	2		Explain the types, and indications of autoimmune markers in different Rheumatological disorders
			3		Describe different modalities of investigations and their indications used in different arthritic disorders
			4		Explain the extra-articular manifestation of inflammatory arthritides
	Management of adult arthritides	1	5		Explain the differential diagnosis, diagnostic and therapeutic approaches to an adult patient with mono-arthritis
	Management of common arthritic disorders		6		Explain the differential diagnosis, diagnostic and therapeutic approaches to an adult patient with symmetrical polyarthritis
			7		Explain the differential diagnosis, diagnostic and therapeutic approaches to an adult patient with oligoarticular arthritis
		1	8		Discuss the management of patient and complications with Rheumatoid arthritis
		1	9		Discuss the management, complications, and prognosis of a patient with SLE
		1	10		Explain the management and complications of a patient with Ankylosing spondylitis
			11		Discuss the clinical features and diagnosis of Reiter's syndrome, Reactive arthritis and Psoriatic arthritis
		1	12		Discuss the management of patient and complications with Osteoarthritis
			13		Discuss the management of patient and complications with acute Gout and Gouty Arthritis
			14	Psychomotor	Take history and perform a physical examination of a patient with symmetrical arthritis
			15	Affective	Counsel a patient with new onset Rheumatoid arthritis.
Pediatrics	Orthopedic	1	16	Cognitive	Perform orthopedic evaluation of a neonate and child

	evaluation of a child Management of pediatric arthritides	1	17	Cognitive	Explain the differential diagnosis, diagnostic workup, and therapeutic approaches to a pediatric patient with mono-arthritis
			18	Cognitive	Explain the differential diagnosis, diagnostic workup and therapeutic approaches to a pediatric patient with symmetrical polyarthritis
			19	Cognitive	Explain the differential diagnosis, diagnostic workup, and therapeutic approaches to a pediatric patient with oligoarticular arthritis
	Management of common arthritic disorders in children	1	20	Cognitive	Discuss the management of patient and complications with Juvenile idiopathic arthritis
			21	Psychomotor	Take history and perform a physical examination of a child with Arthritis
			22	Affective	Counsel a child and his parents with new onset Juvenile Chronic arthritis
Orthopedics	Surgical management of disabling Rheumatoid arthritis	1	23	Cognitive	Explain the surgical interventions and their indications in the management of disabling Rheumatoid arthritis - Rheumatic hand disorders - Rheumatic foot disorders
	Tuberculous / Septic arthritis	1	24	Cognitive	Discuss the etiology, risk factors, Clinical presentation, Diagnostic approach, and management of tuberculous and septic hip and knee arthritis.
Theme-2: Aching Bones					
Medicine	Osteoporosis	1	25	Cognitive	Explain the etiology, risk factors, complications, management, and prevention of Osteoporosis
Pediatrics	Rickets and Osteomalacia	1	26	Cognitive	Discuss the diagnostic approach to a child with Rickets
			27	Cognitive	Discuss the etiology, clinical, radiological, and laboratory features of Rickets and Osteomalacia and their treatments
			28	Psychomotor	Take history and perform a physical examination of a patient with Rickets
Orthopedics	Deformities and congenital disorders	1	29	Cognitive	Classify common deformities and congenital disorders of bones

			30	Cognitive	Discuss the pathophysiology, clinical features and complications of Achondroplasia
		1	31	Cognitive	Discuss the pathophysiology, clinical features and complications of Osteogenesis imperfecta
			32	Cognitive	Discuss the pathophysiology, clinical features and complications of Paget's disease
	Structural spine abnormalities	1	33	Cognitive	Classify and explain structural spine abnormalities in terms of clinical features, complications, and management
	Osteomyelitis	1	34	Cognitive	Explain the etiology, clinical presentation, investigations, and medical and surgical management of Osteomyelitis
	Caries Spine		35	Cognitive	Explain the etiology, clinical presentation, investigations, and medical and surgical management of Caries spine
Theme-3: Muscle weakness					
Medicine	Proximal myopathy	1	36	Cognitive	Elaborate on the etiology and diagnostic workup of a patient with proximal muscle weakness
	Polymyositis and dermatomyositis	1	37	Cognitive	Discuss the pathogenesis, clinical features, investigations, differential diagnosis and management of Polymyositis and Dermatomyositis
Pediatrics	Muscular dystrophies	1	38	Cognitive	Classify muscular dystrophies
			39	Cognitive	Explain the pathogenesis, clinical features, differential diagnosis, management and prognosis of Duchenne muscular dystrophy
			40	Cognitive	Explain the pathogenesis, clinical features, differential diagnosis, management and prognosis of myotonic dystrophy
			41	Cognitive	Compare the clinical features and prognosis of Becker, limb-girdle, and facioscapulohumeral dystrophies
			42	Psychomotor	Take history and perform a physical examination of a child with muscular dystrophy
			43	Affective	Counsel the parents of a child suffering from Muscular dystrophy

Orthopedics	Poliomyelitis	1	44	Cognitive	Explain the Orthopedic complications of poliomyelitis their Diagnostic workup and Management
Psychiatry	Somatoform disorders	1	45	Cognitive	Classify somatoform disorders
			46	Cognitive	Explain the criteria for the diagnosis of pain somatoform disorders
			47	Cognitive	Explain the clinical presentation, psychiatric assessment, pharmacological and psychological management of a patient with fibromyalgia and other somatoform disorders
			48	Psychomotor	Take psychiatric history from a patient suffering from somatoform disorder
			49	Affective	Counsel a patient with somatoform disorder
Theme-4: Skin rashes and burns					
Dermatology	Cutaneous manifestations of systemic diseases	1	50	Cognitive	Explain the common cutaneous manifestations of metabolic, endocrine, autoimmune, and neoplastic diseases
	Drug rash	1	51	Cognitive	Classify the different types of drug rashes
			52	Cognitive	Explain the clinical manifestations, differential diagnosis, and management of erythema multiforme/Steven Johnson/Toxic Epidermal Necrolysis.
	Viral Infections of the skin • Chickenpox and Herpes Zoster • Warts (Human Papilloma Virus) • Molluscum Contagiosum • Cutaneous manifestation of AIDS	1	53	Cognitive	Explain the clinical manifestations, differential diagnosis and management of Chicken Pox and Herpes Zoster
		1	54	Cognitive	Classify Warts
			55	Cognitive	Explain the mode of transmission, differential diagnosis and management of warts
			56	Cognitive	Explain the mode of transmission, clinical presentation, differential diagnosis, and management of Molluscum Contagiosum in children and adults
	Acute Bacterial infections of the skin • Impetigo • Folliculitis • Furunculosis • Carbuncles	1	57	Cognitive	Describe the etiology, clinical features, and management of acute bacterial skin lesions described

	Chronic bacterial infections of the skin		58		Discuss the etiology, clinical features, and management of chronic bacterial skin lesions described
	• Cutaneous Tuberculosis • Leprosy • Syphilis				
	Fungal infections	1	59		Explain the etiology, clinical features, and management of fungal infections described
	• Pityriasis versicolor • Dermatophytosis • Candidiasis				
			60		Explain the different types of Acne
	Sebaceous glands diseases Acne		61		Explain the pathogenetic mechanisms, clinical features, complications, differential diagnosis, and management of Acne
	Autoimmune blistering disorders	1	62		Describe the etiology, clinical features, and management of diseases described
	• Pemphigus Vulgaris • Bullous pemphigoid				
	Eczemas	1	63		Classify Eczema
			64		Explain the clinical presentation, differential diagnosis and management of different types of Eczemas
	Inflammatory dermatosis		65		Describe the etiology, clinical features, and management of diseases mentioned
	• Psoriasis • Lichen Planus • Seborrheic Dermatitis • Erythema Nodosum • Urticaria				
	Erythroderma		66		Discuss the etiology, clinical presentation, differential diagnosis, and management of Erythroderma.
			67	Psychomotor	Take history for a patient with generalized Rash.
			68	Affective	Counsel patients suffering from Psoriasis.

Surgery/ Plastic Surgery	Burns ○ Classification ○ Assessment ○ Management ○ Complications	03	69	Cognitive	Classify burns.
			70	Cognitive	Assess a patient of burns in terms of burn area calculation, fluid assessment, and referral to specialized burn units.
			71	Cognitive	Discuss the initial and long-term management of burns
			72	Cognitive	Explain the early and late complications of burns
			73	Psychomotor	Calculate burn area.
			74	Affective	Counsel a patient and his/her family members with burns.

MIT: Mode of information transfer. E.g. lecture, SGD, DSL, Practical, skill lab etc etc.

MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



CARDIORESPIRATORY III

5TH YEAR MBBS

BLOCK: O

DURATION: 8 WEEKS

MODULE CODE: MB5-O-CRS-III-28



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

1. Discuss the management of a patient with chest pain
2. Explain the management of patients with different types of ischemic heart diseases
3. Explain the management of patients with different types of arrhythmias
4. Discuss the management of traumatic chest injuries as a primary care physician
5. Explain the management of a patient with heart failure
6. Explain the management of patients with different types of Obstructive lung diseases
7. Discuss the management of pleural and pericardial diseases
8. Explain the diagnostic criteria and management of Bacterial endocarditis and Rheumatic fever and their complications
9. Explain the clinical features and management of cyanotic and acyanotic congenital and Valvular heart diseases
10. Discuss the management of cardiomyopathies and myocarditis
11. Explain the diagnostic workup and management of patients with different types of Pneumonias
12. Explain the management approach of a patient with Hypertension
13. Discuss the diagnostic approach and management of DVT and its prevention

3. Specific learning objectives

4. Theme1:ChestPainandPalpitations

Subject	Topic	Hours	S.No	Domain of learning	Learningobjectives
Medicine	Approachtoa patient with chest pain	1	1	Cognitive	Discussthedagnosticworkupandmanagement approachforapatientwithchestpain
		1	2	Psychomotor	Takehistoryandperformphysicalexaminationof patientwithchestpain
	Ischemicheart diseases	0.5	3	Cognitive	ClassifyIHD
			4	Cognitive	Explainthemanagementapproachtoapatientwith stableanginapectoris
		0.5	5	Cognitive	Explainthemanagementapproachtoapatientwith unstableanginapectoris
			6	Cognitive	Explainthemanagementapproachtoapatientwith acute MI.
		1	7	Cognitive	Discuss theriskstratificationstrategiesinpost-MI patients
	Disordersof Rhythm	1	8	Cognitive	Classifyarrhythmiasandheartblockanddiscusstheir ECGabnormalities

			9	Cognitive	Explainthediagnosticandmanagementapproachtoa patientwithirregularlyirregularpulse
		0.5	10	Cognitive	Discussthemangementapproachtoapatientwith SVT
		0.5	11	Cognitive	Discussthemangementapproachtoapatientwith Ventriculartachycardia
			12	Cognitive	Explainthemanagementofapatientwithdifferent typesofheartblocks
		0.5	13	Affective domain	Counselapatientwithrecentonsetacute MI
Cardiology	Cardiac intervention techniques	1	14	Cognitive	Explainthedifferenttypes,methods,andindicationsof cardiac interventions in cardiology practices
Pediatrics	Supraventricular tachycardia	1	15	Cognitive	Discusstheclinicalpresentationandthediagnostic workupneededforSupraventriculartachycardiain Pediatricpatients
			16	Affective domain	Counselaparentofaneonate,infantandchild with Supraventriculartachycardia
Surgery	Chesttrauma Hemothorax	0.5	17	Cognitive	DiscussthediagnosticsworkupforChesttrauma
		1	18	Cognitive	Discussthemangementoptionsforapatientwith Chesttrauma
			19	Psychomotor	PerformABCinacasepresentingwithchesttrauma
		0.5	20	Psychomotor	Observechestintubationofapatientpresentingwith chesttrauma

Theme2:Shortnessofbreath					
Subject	Topic	Hours	S.No	Domainof learning	Learningobjectives
Medicine (CVS)	Congestive cardiacfailure	1	21	Cognitive	Explain the types, etiology, clinical features, investigations,prognosis,andmanagementofapatient withCCF.
		1	22	Cognitive	classifycardiomyopathies
			23	Cognitive	Explaintheetiology,clinicalfeatures,andmanagement ofapatientwithmyocarditis
	Pericarditisand pericardial effusion	1	24	Cognitive	Explaintheetiology,clinicalfeatures,andmanagement of a patient pericarditis and pericardial effusion
Medicine (Respiratory)	Bronchialasthma (Wheezy chest)	1	25	Cognitive	Explainthediagnosticandmanagementapproachfora patientwithchronicwheezychest
			26	Cognitive	Differentiatebetweenbronchialasthmaandcardiac asthma
	COPD	1	27	Cognitive	Explainthediagnosticandmanagementapproachfora patientwithCOPD
			28	Cognitive	InterpretPulmonaryFunctiontestresults
			29	Cognitive	InterpretareportofArterialbloodgases
	Interstitiallung disease (ILD)	1	30	Cognitive	Discuss thetypes,etiology,clinicalandradiological presentation,investigations,andmanagementofa patient with ILD

	Pleural effusion	1	31	Cognitive	Explain the diagnostic and management strategies in a patient with pleural effusion
			32	Psychomotor	Assist in pleural fluid aspiration
	Pneumothorax	1	33	Cognitive	Explain the diagnostic and management strategies in a patient with Pneumothorax
	Pulmonary embolism	1	34	Cognitive	Discuss the risk factors diagnostic criteria, complications, and treatment of a patient with suspected pulmonary embolism
Pulmonology	Respiratory Failure	1	35	Cognitive	Explain the types, etiology, and pathogenesis of Respiratory Failure
			36	Cognitive	Discuss the diagnostic workup and management for Respiratory Failure
			37	Cognitive	Discuss the types, indications, and approaches to Oxygen therapy
Pediatrics	Acyanotic heart disease	1	38	Cognitive	Discuss the clinical presentation and the diagnostic workup needed for Acyanotic heart disease in Pediatric patients
			39	Cognitive	Discuss the management of an infant and child with Acyanotic heart disease
	Ventricular Septal Defect (VSD)	1	40	Cognitive	Discuss the diagnostic workup and management for Ventricular Septal Defect.
	Atrial Septal Defect (ASD)		41	Cognitive	Discuss the diagnostic workup and management for Atrial Septal Defect

	Aortic stenosis	1	42	Cognitive	Discuss the diagnostic and management workup for Aortic stenosis
	Coarctation of aorta	1	43	Cognitive	Explain the etiology, clinical presentation of Coarctation of aorta
			44	Cognitive	Discuss the diagnostic workup and management for Coarctation of aorta
	Cyanotic heart disease	1	45	Cognitive	Discuss the clinical presentation and the diagnostic workup needed for Cyanotic heart disease in Pediatric patients
			46	Cognitive	Discuss the management of an infant and child with Cyanotic heart disease
			47	Psychomotor skills	Perform physical examination of a neonate and infant with Cyanotic heart disease
			48	Affective domain	Counsel a parent of a neonate, infant and child with Cyanotic heart disease
	Tetralogy of Fallot (TOF)	1	49	Cognitive	Explain the etiology and clinical presentation of Tetralogy of Fallot
			50	Cognitive	Discuss the diagnostic workup and management for Tetralogy of Fallot
	Transposition of Great Arteries (TGA)	1	51	Cognitive	Explain the etiology and clinical presentation of Transposition of Great Arteries
			52	Cognitive	Discuss the diagnostic workup and management for Transposition of Great Arteries

	Ebstein anomaly	1	53	Cognitive	Explain the etiology and clinical presentation of Ebstein anomaly
			54	Cognitive	Discuss the diagnostic workup and management for Ebstein anomaly
	Total Anomalous Pulmonary Venous Drainage or Connections (TAPVC)	1	55	Cognitive	Explain the etiology and clinical presentation of TAPVC
			56	Cognitive	Discuss the diagnostic workup and management for TAPVC
	Truncus arteriosus	1	57	Cognitive	Explain the etiology and clinical presentation of Truncus arteriosus
			58	Cognitive	Discuss the diagnostic workup and management for Truncus arteriosus
	Tricuspid atresia	1	59	Cognitive	Explain the etiology and clinical presentation of Tricuspid atresia
			60	Cognitive	Discuss the diagnostic workup and management for Tricuspid atresia
	Congestive Cardiac Failure (CCF)	1	61	Cognitive	Discuss the clinical presentation and the diagnostic workup and management needed for Congestive Cardiac Failure in Pediatric patients
			62	Psychomotor skills	Take history and perform physical examination of a neonate, infant and child with Congestive Cardiac Failure

			63	Affective domain	Counsel the parents of a neonate, infant and child with Congestive Cardiac Failure
	Cardio-myopathy	1	64	Cognitive	Discuss the management algorithm of an infant and child with Cardiomyopathy
	Cystic fibrosis	1	65	Cognitive	Explain the etiology and clinical presentation of Cystic fibrosis
			66	Cognitive	Discuss the diagnostic workup and management for Cystic fibrosis
Family medicine	IHD/CCF	1	67	Cognitive	Explain the management strategies of a patient with IHD and heart failure in general practice including the psychosocial impact of disease on patient and their families
		0.5	68	Cognitive	Describe the strategies for prevention of IHD and CCF
		0.5	69	Cognitive	Identify the red-flags in a patient with IHD/CCF and appropriately refer to speciality care when required
Surgery	Thoracostomy and chest intubation	1	70	Cognitive	Explain the indications for Thoracostomy and chest intubation.
			71	Psychomotor	Observe the procedure of Thoracostomy and chest intubation
			72	Affective	Counsel a patient for the procedure of Thoracostomy and chest intubation

Theme-3:FeverandCough					
Subject	Topic	Hours	S.No	Domainof learning	Learningobjectives
Medicine	Bacterial endocarditis	1	73	Cognitive	Explain the risk factors, etiology, clinical features, diagnosticcriteria,management,andpreventionof Bacterialendocarditis.
	Pneumonias		74	Cognitive	Discusstheetiologyandclassificationofpneumonias
			75	Cognitive	Explain the etiology, risk factors clinical features, diagnosis,andmanagementofpatientswithdifferent typesofpneumonias.
		1	76	Psychomotor	Examineapatientwithfeaturesofpneumonia
	Pulmonary Tuberculosis	1	77	Cognitive	Explainthediagnosticworkup,management,and complicationsofasuspectedcaseofpulmonary TB
	Bronchiectasis	1	78	Cognitive	Developamanagementalgorithmforapatientwith bronchiectasis
	Lungabscess	1	79	Cognitive	Explaintheetiology,clinicalandradiologicalfeatures, complications,andmanagementofapatientwithlung abscess.
	Lungtumors	1	80	Cognitive	Classifylungtumors
			81	Cognitive	Explain the diagnostic workup and management and complicationsofapatientwithsuspectedBronchogenic carcinoma

		0.5	82	Cognitive	Explainthediagnosticworkupandmanagementand complications of a patient with suspected pleural mesothelioma
	Cardiovascular involvementin systemicdiseases	1	83	Cognitive	Discussthecardiovascularmanifestationsofsystemic diseases, their clinical features, investigations, prognosis,andrelevantmanagement
	Pulmonary involvementin systemicdiseases	1	84	Cognitive	Discussthepulmonarymanifestationsofsystemic diseases, their clinical features, investigations, prognosis,andrelevantmanagement
Pediatrics	Rheumaticfever	1	85	Cognitive	Discusstheclinicalpresentationandthediagnostic workup needed for Rheumatic fever inPediatricpatients
			86	Cognitive	Discussthemangementofaninfantandchildwith Rheumatic fever
		1	87	Psychomotor skills	Performphysicalexaminationofaneonate,infantwith Rheumatic fever
			88	Affective domain	Counselaparentofaneonate,infantandchildwith Rheumatic fever
	AcuteRespiratory Infections(ARI)	1	89	Cognitive	Explaintheclinicalpresentationanddiagnosticworkup neededforAcuteRespiratoryInfections

			90	Cognitive	Discuss the management of an infant and child with Acute Respiratory Infections
			91	Psychomotor skills	Perform physical examination of a neonate, infant with Acute Respiratory Infections
			92	Affective domain	Counsel a parent of a neonate, infant and child with Acute Respiratory Infections
	Croup	1	93	Cognitive	Explain the clinical presentation and diagnostic workup needed for Croup
			94	Cognitive	Discuss the management of an infant and child with Croup
	Pneumonia	1	95	Cognitive	Explain the clinical presentation and diagnostic workup needed for Pneumonia
			96	Cognitive	Discuss the management of an infant and child with Pneumonia
Family medicine	Acute respiratory presentations- primary care management and Red flags	1	97	Cognitive	Explain the approach to a patient with cough or shortness of breath in a primary health care setting.
			98	Cognitive	Discuss the differential diagnosis of a patient with cough or shortness of breath

			99	Cognitive	Discuss the investigations for a patient with cough or shortness of breath in a primary health care setting
			100	Cognitive	Identify common red-flags
			101	Cognitive	Identify patients that need urgent and proper referral for specialist care
Pediatrics	Rheumatic fever	1	102	Cognitive	Discuss the clinical presentation and the diagnostic workup needed for Rheumatic fever in Pediatric patients.
			103	Cognitive	Discuss the management of an infant and child with Rheumatic fever.
			104	Psychomotor skills	Perform physical examination of a neonate, infant with Rheumatic fever.
			105	Affective domain	Counsel a parent of a neonate, infant and child with Rheumatic fever.
	Infective endocarditis	1	106	Cognitive	Discuss the clinical presentation and the diagnostic workup needed for Infective endocarditis in Pediatric patients
			107	Cognitive	Discuss the management of an infant and child with Infective endocarditis.
			108	Psychomotor skills	Perform physical examination of a neonate, infant with Infective endocarditis.
			109	Affective domain	Counsel a parent of a neonate, infant and child with Infective endocarditis.

	Myocarditis	1	110	Cognitive	Discusstheclinicalpresentationandthediagnostic workupneededforMyocarditis.
			111	Cognitive	Discussthemanagementofaninfantandchild with Myocarditis.
			112	Psychomotor skills	Performphysicalexaminationofaneonate,infantwith Myocarditis.
			113	Affective domain	Counselaparentofaneonate,infantandchild with Myocarditis.
Theme-4:PainfullegandBloodpressure					
Subject	Topic	Hours	S.No	Domain of learning	Learningobjectives
Medicine	Deep vein thrombosis(DVT)	1	117	Cognitive	Discussthediagnosticsalgorithmforanelderlypatient withasuddenswollenandpainfullimb.
			118	Cognitive	Discussthedagnosisandmanagementstrategiesfora patientwithDVT.
	Coarctationof Aorta	0.5	119	Cognitive	Explain the types, clinical features, investigations, complications,andmanagementofCoarctationofthe Aorta.
	Systemic Hypertension	1	120	Cognitive	Discussthemanagementapproachtoapatientwho is newlydiagnosedhypertensive.
		0.5	121	Psychomotor skills	Takehistoryfromahypertensivepatient

			122	Psychomotor skills	Perform a physical examination of a hypertensive patient
		0.5	123	Affective domain	Counsel a newly diagnosed hypertensive patient
Family medicine	Hypertension in general practice	1	124	Cognitive	Explain the management strategies of a hypertensive patient in general practice including the psychosocial impact of disease on patient and their families.
		1	125	Cognitive	Describe the strategies for prevention of hypertension and its complications.
			126	Cognitive	Identify the red flags in a hypertensive patient and appropriately refer to speciality care when required

MIT: Mode of information transfer. E.g. lecture, SGD, DSL, Practical, skill lab etc etc.

MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



RENAL-III

5TH YEAR MBBS

BLOCK: P

DURATION: 2 WEEKS

MODULE CODE: MB5-P-REN-III-29



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

- 1) Discuss the diagnostic approach and management of an adult and a child with suspected glomerular disease.
- 2) Discuss the diagnostic approach and management of an adult and a child with acute and chronic renal disease.
- 3) Discuss the management of a patient with nephrocalcinosis.
- 4) Discuss the etiology, clinical features, and management of common electrolyte abnormalities.
- 5) Explain the diagnosis and management of a patient with hematuria and UTIs.
- 6) Explain the common diseases of the urogenital system.
- 7) Take history and perform a physical examination of urogenital system.
- 8) Counsel a patient with acute and chronic renal failure.

3. Specific learning objectives

4. Theme1:Facialswelling

Subject	Topic	Hours	S.No	Domain learning	Learningobjective
Medicine/ Nephrology	Investigations	1	1	Cognitive	Discuss the biochemical, radiological, hematological, and other specialized investigations and their interpretations in renal diseases.
	Approach to		2	Cognitive	Discuss the diagnostic workup and management approach for a patient with facial swelling of renal origin
			3	Psychomotor	Take history and perform physical examination of patient with facial swelling
	Minimal change disease	1	4	Cognitive	Explain the diagnostic workup and management and complications of a patient with Minimal change disease.
	Poststreptococcal Glomerulonephritis		5	Cognitive	Explain the diagnostic workup and management and complications of a patient with Post-Streptococcal Glomerulonephritis.
	IgA Nephropathy		6	Cognitive	Explain the diagnostic workup and management and complications of a patient with IgA Nephropathy.
	Chronic glomerulonephritis	1	7	Cognitive	Explain the diagnostic workup and management and complications of a patient with Chronic glomerulonephritis
Pediatrics	Nephrotic Syndrome	1	8	Cognitive	Discuss the clinical presentation, the diagnostic workup and management for suspected GN and Nephrotic Syndrome in Pediatric patients.
			9	Psychomotor	Take a history from a patient with Nephrotic Syndrome.
			10	Psychomotor	Perform physical examination of a patient with suspected GN and Nephrotic Syndrome.
			11	Affective	Effectively counsel a child and his/her parents with nephrotic syndrome.

Theme-2:ScantyUrine

Subject	Topic	Hours	S.No	Domain of learning	Learningobjectives
Medicine/ Ne	Electrolyte disorders	1	12	Cognitive	Explain the etiology, clinical features, diagnosis, and treatment of Hyper and Hyponatremia.

Nephrology		1	13	Cognitive	Explain the etiology, clinical features, diagnosis, and treatment of hyper and hypokalemia.
			14	Cognitive	Explain the etiology, clinical features, diagnosis, and treatment of hyper and hypophosphatemia.
			15	Cognitive	Explain the etiology, clinical features, diagnosis, and treatment of hyper and hypomagnesemia.
	Blood Ph abnormalities		16	Cognitive	Explain the etiology, clinical features, diagnosis and treatment of Metabolic acidosis and alkalosis and its associated compensations.
			17	Cognitive	Explain the etiology, clinical features, diagnosis and treatment of respiratory acidosis and alkalosis and its associated compensation.
	Scanty Urine	1	18	Cognitive	Discuss the diagnostic workup and management approach for a patient with oliguria and anuria.
	Uremia		19	Cognitive	Discuss the pathophysiological mechanisms, clinical manifestations, investigations, and management of a patient with Uremia.
	Chronic Kidney Injury	1	20	Cognitive	Explain the diagnostic workup and management and complications of a patient with Chronic Kidney Injury
Pediatrics	Acute Kidney Injury (AKI)	1	21	Cognitive	Discuss the clinical presentation, the diagnostic workup and management for Acute Kidney Injury in Pediatric patients.
	Chronic Renal Failure (CKD)	1	22	Cognitive	Discuss the clinical presentation, the diagnostic workup and management for Chronic Renal Failure in Pediatric patients.

Theme-3: Loin pain and dysuria

Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Medicine/ Nephrology	Approach to blood in urine (haematuria)	0.5	23	Psychomotor	Take a history from a patient presenting with blood in the urine.
			24	Psychomotor	Perform a physical examination of a patient with blood in the urine.
			25	Cognitive	Discuss the diagnostic workup and management approach for a patient with blood in urine.
	Loin pain and dysuria	0.5	26	Cognitive	Discuss the diagnostic workup and management approach for a patient with loin pain and dysuria.

	Acute pyelonephritis	1	27		Discuss the diagnostic workup and management approach for a patient with acute pyelonephritis.
	Acuteandchronic prostatitis	1	28	Cognitive	Discuss the diagnostic workup and management approach for a patient with acute and chronic prostatitis
Surgery	Nephrolithiasis	1	29	Cognitive	Explaintheetiology,riskfactors,types,approach, investigations, treatment, and prevention of Nephrolithiasis
			30	Psychomotor	TakeahistoryfromapatientpresentingwithacuteFlank andloinpain.
			31	Psychomotor	Perform a physical examination of a patient with acuteFlank, and loin pain.
			32	Affective	Counselapatientpresentingwithnephrolithiasis.
	Dysuria	1	33	Cognitive	DiscussthediagnosticsworkupforDysuria.
			34	Cognitive	DiscussthemanagementoptionsforapatientwithDysuria
	Hematuria	1	35	Cognitive	DiscussthediagnosticsworkupforHematuria.
			36	Cognitive	Discussthemanagementoptionsforapatientwith Hematuria.

Theme-4: Pain and swelling of external genitalia

Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Surgery	Testicular torsion	1	37	Cognitive	Discuss the diagnostic workup for Testicular torsion
			38	Cognitive	Discuss the management options for a patient with Testicular torsion.
	Hydrocele		39	Cognitive	Discuss the diagnostic workup for Hydrocele.
			40	Cognitive	Discuss the management options for a patient with Hydrocele.
	Testicular tumors	1	41	Cognitive	Explain the diagnostic workup and management and complications of a patient with suspected Testicular tumors.
	Epididymo-orchitis		42	Cognitive	Discuss the diagnostic workup for Epididymo-orchitis.
			43	Cognitive	Discuss the management options for a patient with Epididymo-orchitis.
Pediatric surgery	Hypospadias	1	44	Cognitive	Discuss the types, complications, and management of a child with Hypospadias.
Urology	Male infertility	1	45	Cognitive	Discuss the diagnostic approach and management options for a male patient with infertility.
Medicine/ Nephrology	Sexually transmitted infections	1	46	Cognitive	Classify STDs and enlist their treatment options.
			47	Cognitive	Discuss the management approach of a patient with ane w

					onsetlesiononthe genitalia.
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MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



ENDOCRINE & REPRODUCTIVE III

5TH YEAR MBBS

BLOCK: P

DURATION: 2 WEEKS

MODULE CODE: MB5-P-END-REP-III-30



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

1. Discuss the clinical conditions resulting in Tall/short stature and its management.
2. Discuss the clinical conditions causing Excessive thirst and Urination and its management.
3. Discuss the clinical conditions resulting in Infertility and its management.
4. Discuss pathophysiology of Pregnancy, its Management, and complications.
5. Discuss the development of fetus, its growth, and complications.
6. Discuss the pathophysiology of Obstetrics emergencies, its Management, and complications.

3. Specific learning objectives

4. Theme-1: Tall/short stature

Subject	Topic	Hours needed	Domain learning	Learning Objectives
Medicine	Anterior pituitary gland	1	Cognitive	Discuss the diagnostic approach and management of a patient with tall stature.
	Posterior pituitary gland	1	Cognitive	Discuss the approach and consideration of a patient with polydipsia
			Cognitive	Explain the diagnostic approach and treatment of a patient with Diabetes insipidus.
Pediatrics	Short stature	1	Cognitive	Discuss the diagnostic approach and management of a child with short stature.

Theme-2: Neck swelling and muscle cramps

Subject	Topic	Hours needed	Domain learning	Learning Objectives
Medicine	Thyroid	1	Cognitive	Discuss the diagnostic approach, management, and complications of a patient with suspected hyperthyroidism.
		1	Cognitive	Discuss the diagnostic approach, management, and complications of a patient with suspected hyperthyroidism.
	Parathyroid gland	1	Cognitive	Discuss the diagnostic approach, management, and complications of a patient with tetany.
			Psychomotor	Take history and perform physical examination of a patient with goitre.
			Affective	Counsel a patient with goitre.
Surgery	Thyroid nodule	1	Cognitive	Explain the diagnostic approach, management, and complications of multinodular goitre.
			Cognitive	Explain the diagnostic approach and management of a patient with solitary thyroid nodule.
			Psychomotor	Perform thyroid examination
Pediatrics	Thyroid disorders	1	Cognitive	Explain the neonatal screening for hypothyroidism
			Cognitive	Explain the diagnostic approach and management of a child with suspected Cretinism

			Cognitive	Discuss the complications of Cretinism
			Psychomotor	Take history and perform physical examination of a child with hypothyroidism/cretinism.

Theme-3: Excessive thirst and urination

Subject	Topic	Hours needed	Domain learning	Learning Objectives
Medicine	Diabetes Mellitus	1	Cognitive	Explain the diagnostic approach, screening and management of a patient with suspected Diabetes Mellitus.
		1	Cognitive	Elaborate the pharmacological and non-pharmacological management strategies in the management of type-1 and type-2 DM.
		1	Cognitive	Elaborate the acute and chronic complications of DM and their management

		1	Cognitive	Discuss the diagnostic approach, management, and complications of Diabetes Mellitus.	Diabetic patients.
			Cognitive	Explain the diagnosis, management and complications of a diabetic patient presenting with hypoglycaemia.	
			Psychomotor	Take history and perform physical examination of a patient with T	
			Affective	Counsel a newly diagnosed patient with DM.	
Family medicine	Diabetes mellitus - general practice management		Cognitive	Explain the management strategies of a diabetic patient in general practice and the psychosocial impact of disease on patient and their families.	
				Describe the strategies for prevention of diabetes mellitus and its complications.	
				Identify the red flags in a diabetic patient and appropriately refer to speciality care when required.	
Surgery	Diabetic foot ulcers	1	Cognitive	Discuss the classification, investigations, management, and complications of diabetic foot ulcers	
			Psychomotor	Examine and stage a diabetic foot ulcer	
Nephrology	Diabetic nephropathy	1	Cognitive	Explain the pathogenesis, clinical features, complications, and short-term management of Diabetic Nephropathy	
Pediatrics	Type-1 DM	1	Cognitive	Explain the diagnostic approach, screening, and management of Type-1 Diabetes Mellitus	
			Psychomotor	Take history and perform physical examination of a patient with T	
			Affective	Counsel a newly diagnosed patient and parents with type 1 DM	

Theme-3: Moon face and obesity

Subject	Topic	Hours needed	Domain learning	Learning Objectives
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Medicine	Cushing's syndrome	1	Cognitive	Discuss the diagnosis, management, and complications of a patient with suspected Cushing's syndrome.
		1	Cognitive	Explain the Dexamethasone suppression test in terms of its
			Cognitive	Explain the protocol of steroids withdrawal in a patient with
	Addison's disease		Psychomotor	Take history and perform physical examination of a patient
		1	Cognitive	Discuss the diagnosis, management, and complications of a patient with suspected Addison's disease (both primary and secondary).
			Cognitive	Explain the concept of steroids replacement in terms of its
	Obesity	1	Cognitive	Discuss the etiology, complications, medical and surgical approaches to the management of obesity.
			Psychomotor	Take history and perform physical examination of a patient
			Affective	Counsel a morbidly obese patient regarding the complication management.

Theme-5: Pregnancy and breastfeeding

Subject	Topic	Hours needed	Domain learning	Learning Objectives
Gynaecology and Obstetrics	Obstetric history and examination		Psychomotor	Take an obstetric history and perform abdominal, pelvic, and obstetric examination of a pregnant lady.
			Psychomotor	Measure and interpret blood pressure in a pregnant lady
			Psychomotor	Examine the breast of a full-term pregnant female
			Psychomotor	Perform urine examination via dipstick technique for pregnancy, glucose, urine, and bacteria
	Antenatal care	1	Cognitive	Define and explain the aims of antenatal care
			Cognitive	Discuss the components of antenatal care
			Cognitive	Explain different types of screening tests during antenatal care
		1	Cognitive	Discuss the maternal and neonatal complications associated with increased BMI in pregnancy
			Cognitive	Identify high-risk women of developing pre-eclampsia, preterm birth, fetal growth restriction, and vitamin D deficiency
			Psychomotor	Perform and record proper antenatal check-ups
	Assessment of fetal well-being		Affective	Counsel a pregnant lady about the complications of pregnancy
		1	Cognitive	Explain the methods of assessment of fetal well-being
			Cognitive	Explain the types and diagnosis of fetal abnormalities
	Prenatal diagnosis	1	Cognitive	Explain the reasons, classification and methods of prenatal diagnosis
	Antenatal maternal	1	Cognitive	Discuss musculoskeletal, gastroenterological, and haematological problems associated with pregnancy.
			Cognitive	Discuss the risk factors and management of thromboembolism in pregnancy.

	and obstetric complications	1	Cognitive	Explain the causes, complications, and management of polyhydramnios.	polyhydramnios
			Cognitive	Discuss the etiology, complications and management of fetal malposition.	fetal malposition
		1	Cognitive	Explain the approach and management of a pregnant lady with antenatal hypertension.	antenatal hypertension
			Cognitive	Discuss the etiology, prevalence, management, and prevention of preterm labor.	preterm labor
	Preterm labor	1	Cognitive	Discuss the etiology, complications, and management of preterm labor.	preterm labor
Family medicine/ Gynaecology	Hypertensive disorders	1	Cognitive	Classify hypertension in pregnancy and disorders of hypertension.	hypertension
			Cognitive	Discuss the diagnostic approach, management, complications and prevention of eclampsia and Eclampsia.	eclampsia and Eclampsia
Family medicine/ Gynaecology	Diabetes mellitus and pregnancy	1	Cognitive	Explain the management of a pregnant lady with gestational diabetes mellitus.	DMa
Gynaecology	Perinatal infections	1	Cognitive	Classify prenatal infections.	
			Cognitive	Explain the screening and preventive strategies of common perinatal infections.	perinatal infections
	Labour	1	Cognitive	Explain the management of normal labour at different stages.	labour
			Cognitive	Explain the management of abnormal labour at different stages.	abnormal labour
		1	Cognitive	Discuss the indications and complications of analgesia and anaesthesia.	anaesthesia
		1	Cognitive	Discuss the management of labour at special circumstances like breech, transverse lie, fetal malposition's, and multiple pregnancies.	special circumstances
			Cognitive	Explain the types, indications, and complications of operative delivery.	operative delivery
			Cognitive	Discuss the indications and complications of Caesarian section.	Caesarian section
			Psychomotor	Observe normal labour and assisted deliveries.	labour and assisted deliveries
	Obstetric emergencies	1	Cognitive	Classify obstetric emergencies.	obstetric emergencies
			Cognitive	Discuss the management of sepsis in pregnancy.	sepsis in pregnancy
			Cognitive	Explain the management and complications of placental diseases in a pregnant woman.	placental diseases
			Psychomotor	Observe a normal delivery.	normal delivery
	Postpartum bleeding	1	Cognitive	Discuss the etiology, diagnostic and management approach to a patient with postpartum haemorrhage.	postpartum haemorrhage
	Puerperium		Cognitive	Classify puerperal disorders and their management.	puerperal disorders
Psychiatry	Psychiatric disorders in Pregnancy and puerperium	1	Cognitive	Classify different psychiatric disorders in pregnancy and puerperium.	puerperium
			Cognitive	Discuss the management of puerperal psychosis and depression.	puerperal psychosis and depression
			Affective	Counsel a patient and her family with postpartum psychosis/depression.	postpartum psychosis/depression
Pediatrics	The neonate	1	Cognitive	Discuss the types and management of common problems of the neonate.	problems of the neonate
			Cognitive	Discuss the principles of neonatal care.	neonatal care

			Psychomotor	Observe the care of a neonate in nursery	
			Psychomotor	Take history and perform physical examination of a neonate	
Surgery	Breast diseases	1	Cognitive	Discuss approach to a patient with breast lump emphasizing on a range of different breast pathologies (complexity of benign and malignant breast diseases) including imaging and management	
		1	Cognitive	Discuss the diagnostic approach and management of a patient with breast lump	
			Psychomotor Skills	<i>Perform a Clinical breast examination by all techniques including "radial wagon wheel" and "spoke" method</i>	
			Affective domain	Counsel a patient with breast cancer about the diagnosis, management, and screening of her family members.	

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MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



NEUROSCIENCES III

5TH YEAR MBBS

BLOCK: Q

DURATION: 4 WEEKS

MODULE CODE: MB5-Q-NS-III-31



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

1. Discuss the management approach to a patient with different types of Dementia
2. Discuss the management of common psychiatric disorders, autism, and substance abuse disorders
3. Explain the management of different types of strokes, and epilepsy
4. Discuss the management of different types of movement disorders
5. Explain the management of different intracranial infections
6. Discuss the management of intracranial space-occupying lesions and head injuries
7. Explain the management of common neuropathies and spinal cord diseases

3. Specific learning objectives

Theme- 1: Disturbed mood and behavior				
Subject	Topic	Hours	Domain of Learning	Learning objectives
Medicine	Dementia	1	Cognitive	Discuss the etiology, clinical features, and management of different types of Dementias
			Cognitive	Classify the reversible and irreversible causes of Dementia
			Cognitive	Explain the pathophysiology and clinical features of a patient with Huntington's disease
			Cognitive	Discuss the diagnostic workup and management for patients suspected of dementia
			Psychomotor Skills	Perform mini-mental state examination
Psychiatry	PTSD	1	Cognitive	Explain the etiology and management of a patient with PTSD
	OCD		Cognitive	Explain the etiology and management of a patient with OCD
	Somatic symptoms disorder	1	Cognitive	Explain the etiology and management of a patient with Somatic symptoms disorder and Chronic pain syndromes
	Autism spectrum disorder		Cognitive	Explain the etiology and management of a child with autism spectrum disorder.
	Substance abuse		Cognitive	Explain the risk factors, types of substance abuse, clinical features, withdrawal symptoms, complications and management of a patient with substance abuse
			Affective domain	Counsel and educate a family of a patient with Dementia
Family Medicine/General Medicine	Anxiety and depression	1	Cognitive	Explain the approach to a patient with anxiety and depression in a primary health care setting.
			Cognitive	Explain the risk assessment for mental health
			Cognitive	Identify common red-flags.
			Cognitive	Discuss the guidelines for management of a patient with Anxiety and depression in a primary health care setting.

			Psychomotor Skills	Perform Screening for Anxiety, Depression and Schizophrenia.
			Psychomotor Skills	Perform a consultation with a patient with anxiety or depression under supervision.
			Affective domain	Observe the consultation of a family physician with a patient with anxiety or depression
Theme2:Right-sided Weakness and Inability to Speak				
Subject	Topic	Hours	Domain of Learning	Learning objectives
Medicine	Stroke syndromes	1	Cognitive	Discuss the diagnostic and management approach for a patient with Right-sided weakness and inability to speak due to an ischemic stroke.
		1	Cognitive	Discuss the diagnostic work up and management for a patient suspected of Haemorrhagic stroke
	Subarachnoid haemorrhage (SAH)		Cognitive	Discuss the diagnostic work up and management for a patient suspected of SAH
			Psychomotor Skills	Demonstrate the complete assessment of the patient on the NIH stroke scale under supervision
			Psychomotor Skills	Demonstrate the assessment of a coma patient on the Glasgow coma scale under supervision
			Psychomotor Skills	Interpret the CT and MRI findings in stroke patients
			Affective domain	Counsel a stroke victim about future prevention and management of complications
Theme-3: Loss of consciousness and Fits				
Subject	Topic	Hours	Domain of Learning	Learning objectives
Medicine	Coma	1	Cognitive	Discuss the management algorithm of a patient with coma
	Epilepsy		Cognitive	Discuss the diagnostic work up and management for a patient with fits
		1	Cognitive	Discuss the diagnostic work up and management for a patient with Tonic Clonic epilepsy

			Cognitive	Discuss the diagnostic work up and management for a patient with Status Epilepticus
			Psychomotor Skills	Perform a consultation with a patient with epilepsy under supervision
			Psychomotor Skills	Write prescriptions for patients with Tonic-Clonic and Petit-malepilepsy
			Affective	Counsel a patient with Epilepsy
Pediatrics	Epilepsy	1	Cognitive	Discuss the diagnostic work up and management for children with seizures and Epilepsy
			Psychomotor Skills	Perform a consultation with a child having epilepsy under supervision emphasizing history and examination.
			Psychomotor Skills	Write a prescription for a child with Tonic-Clonic and Petit-malepilepsy
			Affective Domain	Counsel and educate the Parents/guardian of a child with epilepsy.
Theme-4: Tremors and movement disorders				
Subject	Topic	Hours	Domain of Learning	Learning objectives
Medicine	Movement Disorders	1	Cognitive	Classify movement disorders
			Cognitive	Discuss the diagnostic work up and management for patients suspected Cerebellar disorders
			Cognitive	Discuss the diagnostic and management approach to a patient with Ataxia
			Cognitive	Discuss the diagnostic and management approach to a patient with Chorea
	Parkinson`s disease	1	Cognitive	Discuss the diagnostic criteria, pharmacological, psycho-social, and rehabilitative approaches to the management of a patient with Parkinson`s disease
			Psychomotor	Examine a patient with Parkinson`s disease by taking history and performing a physical examination.

Psychiatry	Dystonia	1	Cognitive	Discuss the diagnostic approach and management for patients suspected of Drug-Induced Dystonia
Theme5:Headache				
Subject	Topic	Hours	Domain of Learning	Learning objectives
Medicine	Headache	1	Cognitive	Explain the diagnostic approach to patients with acute and chronic headaches
	Migraine		Cognitive	Explain the types, risk factors, diagnostic approach, management, and prevention of Migraine
			Psychomotor Skills	Demonstrate Complete history and examination of patient with migraine
			Affective domain	Discuss the lifestyle changes preventing migrainous headaches
	Meningitis	1	Cognitive	Classify meningitides
			Cognitive	Differentiate between the clinical features, investigations, CSF findings, radiological findings, and complications in patients with viral, bacterial, and tuberculous meningitis
			Cognitive	Discuss the pharmacological and surgical management approaches in patients with different types of meningitides
				Psychomotor Skill
			Psychomotor Skill	Interpret a CSF report in a patient with viral, acute pyogenic and tuberculous meningitis
			Psychomotor Skill	Observe the Lumbar puncture
			Affective domain	Counsel a patient and his/her family with Tuberculous meningitis regarding complications, treatments` side effects and followups
	Encephalitis	1	Cognitive	Discuss the etiology, pathogenesis, clinical
Family Medicine/General Medicine	Headache	1	Cognitive	Explain the approach to a patient with Headache in a primary healthcare setting
			Cognitive	Identify common red flags in a patient with headache
			Cognitive	Discuss the investigations for a patient with Headache in a primary healthcare setting.

			Cognitive	Identify patients that need urgent and proper referral for specialist care.
Pediatrics		1	Cognitive	Discuss the diagnostic workup and management for children with Headache
	Meningitis	1	Cognitive	Discuss the diagnostic workup and management for children suspected of Meningitis
			Cognitive	Explain the short term and long-term sequelae of meningitis
				Psychomotor Skills
	Big head	1	Cognitive	Explain the diagnostic and therapeutic approach to a child with big head
Neurosurgery	Intracranial space	1	Cognitive	Classify intracranial space occupying lesions (benign, malignant and infections)
	occupying lesions		Cognitive	Discuss the clinical features, radiological findings and treatment of intracranial space occupying lesions
	Head Injury	1	Cognitive	Discuss the diagnostic workup and management for patients with Head Injury
			Affective domain	Counsel about the post-operative care of patients with head injuries and their families.
Theme-6: Lower limb weakness				
Subject	Topic	Hours	Domain of Learning	Learning objectives
Medicine	Multiple Sclerosis	1	Cognitive	Discuss the diagnostic approach and management of a patient with suspected Multiple Sclerosis
			Psychomotor	Examine the lower limbs of a patient with paraplegia
			Affective Domain	Discuss and counsel the pts regarding the changes in the lifestyle of patients with Multiple sclerosis
	Acquired Neuropathies	1	Cognitive	Classify acquired neuropathies and discuss their clinical features, investigations, and management
	Approach to Lower limb weakness	1	Cognitive	Discuss the diagnostic algorithm of a patient with lower limb weakness
Pediatrics	Hereditary neuropathies	1	Cognitive	Classify hereditary neuropathies and discuss their clinical features, investigations, and management

Pediatric surgery	Congenital malformations - Spina Bifida/myelomeningocele	1	Cognitive	Explain the clinical features, investigations, and management of a child with Spina Bifida/Myelomeningocele
			Affective Domain	Discuss and counsel the pts regarding the changes in the lifestyle of patients with congenital malformations
Neurosurgery	Syringomyelia	1	Cognitive	Describe Syringomyelia and Explain the onset of Syringomyelia
			Cognitive	Discuss the diagnostic workup and management for pt suspected of Syringomyelia.
Orthopedics	Diseases of the vertebrae and intervertebral discs	1	Cognitive	Classify diseases of the vertebrae and intervertebral discs, their clinical features, investigations, complications, and management
	Kyphoscoliosis	1	Cognitive	Discuss the etiology, clinical features, complications, and management of Kyphoscoliosis.

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MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



GIT & HEPATOBILIARY III

5TH YEAR MBBS

BLOCK: Q

DURATION: 2 WEEKS

MODULE CODE: MB5-Q-GIT-III-32



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

- Discuss the approach to the management of a patient with dysphagia and upper GI bleed.
- Explain the approach to the management of a patient with pain epigastrium.
- Discuss the management of a patient with acute and chronic hepatitis, liver cirrhosis, and encephalopathy.
- Explain the management of a patient with acute and chronic diarrheas.
- Discuss the management of a patient with peritonitis and intestinal obstruction.
- Explain the management of a patient with constipation and lower GI bleeding.
- Take history and perform a physical examination of a patient with GI diseases.
- Counsel patients and their families with common GI diseases

3. Specific learning objectives

4. Theme- 1: Difficulty in swallowing and epigastric pain					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Surgery	Dysphagia	1	1	Cognitive	Explain the diagnostic workup and management of a patient with dysphagia.
Medicine	Upper GI bleeding	1	2	Cognitive	Explain the diagnostic workup and management and complications of a patient with Upper GI bleeding
			3	Psychomotor	Take history and perform a physical examination of a patient with an upper GI bleed.
			4	Psychomotor	Observe upper GI endoscopy.
			5	Psychomotor	Observe NG tube insertion.
Pediatrics	Vomiting	1	6	Cognitive	Explain the diagnostic and therapeutic approach to a neonate and infant with persistent vomiting.
Gynaecology	Hyperemesis gravidarum	1	7	Cognitive	Discuss the management of a patient with vomiting of pregnancy.
			8	Affective	Counsel a patient with hyperemesis gravidarum.

Theme- 2: Yellow discoloration of the sclera					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Medicine	Investigation of liver diseases	1	9	Cognitive	Elaborate on the investigations used for the diagnosis of hepatobiliary disorders and their interpretations.
			10	Psychomotor	Take history and perform physical examination of a patient with liver cirrhosis.
			11	Psychomotor	Observe Ascitic fluid paracentesis.
			12	Psychomotor	Interpret Ascitic fluid report.
			13	Affective	Counsel a patient with Liver cirrhosis due to Hepatitis B/C.
	Acute fulminant hepatitis and acute liver failure	1	14	Cognitive	Discuss the diagnostic approach and management of a patient with suspected acute fulminant hepatitis/acute liver failure.
	Hepatic encephalopathy		15	Cognitive	Explain the grading system, etiology, diagnostic approach, management, and prevention of hepatic encephalopathy.

			16	Psychomotor	Elicit Asterixis/hepatic flap.
Surgery	Obstructive jaundice	1	17	Cognitive	Discuss the diagnostic approach and management of a patient with suspected obstructive jaundice.
			18	Affective	counsel a standardized patient with newly diagnosed Carcinoma head of the Pancreas.
Pediatrics	Hyperbilirubinemia	1	19	Cognitive	Discuss the diagnostic approach and management of a neonate and infant with jaundice.
			20	Psychomotor	Take history and perform physical examination of a child with jaundice.
			21	Affective	Counsel a child and his parents with Gilbert syndrome.

Theme- 3: Pain Abdomen and Diarrhea					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Surgery	Acute appendicitis	1	22	Cognitive	Discuss the diagnostic approach and management of a patient with pain in the right iliac fossa due to suspected appendicitis.
	Pain abdomen		23	Cognitive	Discuss the diagnostic approach and management of a patient with pain in the abdomen of acute onset and chronic onset.
			24	Psychomotor	Illicit signs of acute appendicitis in a child.
			25	Affective	Counsel the parents of a child with acute appendicitis
	Intestinal obstruction	1	26	Cognitive	Discuss the etiology, diagnostic approach, and management of a patient with suspected intestinal obstruction.
	Intestinal perforation	1	27	Cognitive	Discuss the etiology, diagnostic approach,
	Hernias	1	28	Cognitive	Discuss the etiology, anatomical concepts, management, and complications of a patient with inguinal hernias.
			29	Psychomotor	Perform transillumination test for inguinal hernias.
Pediatrics	Malabsorption and celiac disease	1	30	Cognitive	Explain the diagnostic workup and management of a patient with Malabsorption due to celiac disease.
			31	Affective	Counsel a child and his/her parents regarding dietary advice regarding celiac disease
	Acute diarrhea	1	32	Cognitive	Explain the diagnostic workup and management of a patient with acute watery diarrhea
			33	Psychomotor	Assess the state of hydration in a child with acute diarrhea

	Chronicdiarrhea	1	34	Cognitive	Explainthediagnosticworkupandmanagem entofapatientwithchronicdiarrhea.
Famil ymed icine/ Medi cine	Approachtoapat ientwithAbdom inal Pain in aprimarhealth care	1	35	Cognitive	Explaintheapproach,differentialdiagnosis ,investigations, initial management, and indications forreferral of a patient with Abdominal Pain in a primaryhealthcaresetting.

Theme- 4:Constipationandbleed ingperrectum					
Subject	Topic	Hours	S.No	Domainofl earning	Learningobjectives
Medicine	Approachtoapat ientbleedingPer rectum	1	36	Cognitive	Discuss the diagnostic workupandmanagementapproac hforapatientwithbleedingperrectum.
Surgery	Constipation	1	37	Cognitive	Discusstheidiagnosticworkupandmanageme ntapproachforapatientwithconstipation
	Ulcerativecolitis	1	38	Cognitive	Discuss the approach to the management of a patientwithulcerativecolitis,itsshortandlon g- termcomplications,andtheroleofsurveillanc ecolonoscopiesinthe preventionofcolorectal malignancies.
	Crohn'sDisease	1	39	Cognitive	Discusstheapproachtothemanagementofapat ientwithCrohn'sdisease,itsshortandlong- termcomplications,andextraintestinalmanife stations.
	Colorectalcancer	1	40	Cognitive	Discusstheapproachtothemanagementofapat ientwithsuspectedcolorectalcanceranditssta ging
Pediatrics surgery	Hirschsprung's disease	1	41	Cognitive	Explaintheetiology,clinicalfeatures,investig ations,treatmentofachildwithHirschsprung's disease.

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MOHI-UD-DIN ISLAMIC MEDICAL COLLEGE MIRPUR

DEPARTMENT OF MEDICAL EDUCATION



MULTISYSTEM III

5TH YEAR MBBS

BLOCK: Q

DURATION: 2 WEEKS

MODULE CODE: MB5-Q-MTS-III-33



2. Learning Objectives

General Learning Outcomes

By the end of this module the students would be able to;

1. Explain the etiology, risk factors, complications, and management of obesity
2. Explain the classification, etiology, risk factors, and management of PCM
3. Explain the risk factors, clinical features, investigations, and treatment of common water-soluble and fat-soluble vitamins
4. Explain the concepts of nutritional support both in the hospital and community settings
5. Explain the risk factors, clinical features, complications, and management of Anorexia nervosa and Bulimia nervosa
6. Discuss the management of common household poisoning including natural gas and snake bites
7. Explain the management of heat and cold-related disorders
8. Discuss the high-altitude sickness, decompression sickness, drowning, and electrocution.
9. Discuss chromosomal abnormalities, their clinical features, and the concept of genetic counselling
10. Discuss the management of different autoimmune disorders and vasculitides in children and adults and their complications

3. Specific learning objectives

Theme-1: Weightloss/gain					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Medicine	Obesity	2	1	Cognitive	Classify the types of obesity.
			2	Cognitive	Discuss the etiology of obesity.
			3	Cognitive	Explain the methods of measuring obesity.
			4	Cognitive	Discuss the musculoskeletal, endocrine, cardiovascular, and psychological complications of obesity.
			5	Cognitive	Classify the drugs used in the management of obesity and their complications and adverse effects.
Surgery	Bariatric surgery	1	6	Cognitive	Discuss the forms of surgical management of obesity
	Vitamin deficiencies • Thiamine deficiency • Pyridoxine deficiency • B12 deficiency and pernicious anemia	1	7	Cognitive	Explain the etiology, clinical features, investigations, and treatment of Beri Beri.
			8	Cognitive	Explain the etiology, clinical features, investigations, and treatment of Pyridoxine deficiency.
			9	Cognitive	Explain the etiology, clinical features, investigations, and treatment of B12 deficiency/pernicious anemia.
	Vitamin A, D, E, K deficiency	1	10	Cognitive	Explain the etiology, clinical features, investigations, treatment, and prevention of Vitamin A deficiency
			11	Cognitive	Explain the etiology, clinical features, investigations, and treatment of vitamin D deficiency
			12	Cognitive	Explain the etiology, clinical features, investigations, and treatment of vitamin E deficiency
			13	Cognitive	Explain the etiology, clinical features, and management of vitamin K deficiency
Surgery	Nutritional support/Enteral and parenteral nutrition	2	14	Cognitive	Define malnutrition and explain the methods of nutritional support.
			15	Cognitive	Explain the indications, contraindications, and complications of oral, enteral, and parenteral nutritional support

			16	Cognitive	Discuss the modes of clinical and laboratory monitoring of nutritional support
			17	Cognitive	Describe the routes of access of parenteral nutrition
			18	Psychomotor	Perform insertion of Nasogastric tube
			19	Psychomotor	Observe the insertion and care of PEG tube
			20	Psychomotor	Keep an intake and output record of an admitted patient on parenteral nutrition
			21	Affective	Counsel a patient before NG tube and PEG tube insertion
Pediatrics	Protein-calorie malnutrition	1	22	Cognitive	Discuss the causes of malnutrition in developing countries - Describe the different forms of protein-energy malnutrition - Describe the symptoms of severe protein-energy malnutrition in children - Outline the treatment needed to treat - Define the criteria that classifies protein-energy malnutrition
					Discuss the causes of malnutrition in developing countries - Describe the different forms of protein-energy malnutrition - Describe the symptoms of severe protein-energy malnutrition in children - Outline the treatment needed to treat - Define the criteria that classifies protein-energy malnutrition Explain the different causes, forms, classification, clinical features, and management of PMC
Psychiatry	Anorexia nervosa and Bulimianervosa	1	23	Cognitive	Discuss the etiology, precipitating factors, clinical features, and management of Anorexia nervosa
			24	Cognitive	Discuss the etiology, precipitating factors, clinical features, and management of Bulimianervosa.
Theme-2: Poisoning					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Medicine	Approach to a patient with poisoning	1	25	Cognitive	Explain the management approach to a patient with poisoning in emergency setup

	Management of a comatose patient with poisoning	1	26	Cognitive	Discuss the management approach to a patient who presents in a comatose state in emergency
	Diagnosis of a patient with poisoning	1	27	Cognitive	Diagnose a patient with poisoning
	Common antidotes and general		28	Cognitive	Discuss the antidotes for common poisons and their management
	management of poisoning				
	Selected poisoning	1	29	Cognitive	Discuss the management of a patient with paracetamol poisoning
	• Acetaminophen	3	30	Cognitive	Discuss the management of a patient with Amphetamine, cocaine and Ice poisoning
	• Amphetamines and cocaine		31	Cognitive	Discuss the management of a patient with benzodiazepine poisoning
	• Benzodiazepine		32	Cognitive	Discuss the management of a patient with insecticide and anticholinergic poisoning
	• Insecticides and anticholinergics		33	Cognitive	Discuss the management of a patient with ethanol and methanol poisoning
	• Carbon monoxide		34	Cognitive	Discuss the management of a patient with Carbon monoxide (Natural gas) poisoning
	• Ethanol and Methanol		35	Cognitive	Discuss the management of a patient with snake venom poisoning
	• Snake bites		36	Psychomotor	Perform gastric lavage
			37	Affective	Counsel a patient/family with poisoning
Theme-3: Cold and heat					
Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Medicine	Heat-related disorders	1	38	Cognitive	Classify heat-related disorders
	Hyperthermia		39	Cognitive	Explain the etiology, pathogenesis, clinical features, and management of Hyperthermia and heat stroke
			40	Cognitive	Differentiate between hyperthermia and hyperpyrexia
	Hypothermia	1	41	Cognitive	Explain the risk factors, complications, and management of hypothermia.
	Drowning		42	Cognitive	Explain the management of a patient with drowning

					Wining
	Electrical injuries		43	Cognitive	Discuss the management of a patient with electrocution
	High altitude sickness	1	44	Cognitive	Discuss the clinical features, management, and, prevention of high-altitude sickness.
	Decompression sickness		45	Cognitive	Discuss the management of a patient with decompression sickness.

Theme-4: The abnormal baby

Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
Pediatrics	Porphyria	1	46	Cognitive	Classify porphyria.
			47	Cognitive	Explain the etiology, pathogenesis, clinical features and treatment of different types of porphyria
	Down syndrome	1	48	Cognitive	Explain the risk factor, chromosomal aberrations, clinical features and complications of Down Syndrome
	Collagen disorders	1	49	Cognitive	Classify collagen disorders and their clinical features
	Glycogen storage diseases		50	Cognitive	Classify glycogen storage disease and their clinical features
	Mucopolysaccharidosis	1	51	Cognitive	Describe the clinical features and complications of mucopolysaccharidosis
	Galactosemia and Phenylketonuria		52	Cognitive	Describe the clinical features, investigations and complications of Galactosemia and Phenylketonuria
Medicine	Chromosomal disorders	1	53	Cognitive	Classify chromosomal disorders and give examples
	Single gene defects		54	Cognitive	Classify single gene disorders and give examples
	Sex linked disorders		55	Cognitive	Classify sex linked disorders and give examples
	Polygenic inheritance		56	Cognitive	Classify polygenic inheritance disorders and give examples
	Marfan syndrome	1	57	Cognitive	Explain the clinical features and complications of Marfan syndrome
Gynaecology	Genetic counselling and perinatal diagnosis	1	58	Cognitive	Explain the modes and indications of perinatal diagnosis
			59	Cognitive	Discuss the concept of genetic counseling
			60	Affective	Observe premarital counseling of a family for thalassemia.

Theme-5: Rash and joint pains

Subject	Topic	Hours	S.No	Domain of learning	Learning objectives
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Medicine	Evaluation of an adult with suspected autoimmune disorder	1	61	Cognitive	Discuss the diagnostic approach to a patient who presents with suspected autoimmune disorder
			62	Cognitive	Explain the different serological and immunological investigations used in the diagnosis of autoimmune disorders
			63	Cognitive	Classify and explain the mechanism of action of different pharmacotherapies in the management of autoimmune disorders
	SLE	2	64	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of SLE
			65	Cognitive	Discuss the diagnostic criteria for the diagnosis of SLE
			66	Cognitive	Explain the differences between SLE and drug induced lupus
	Antiphospholipid syndrome	1	67	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of Antiphospholipid syndrome
	Scleroderma	1	68	Cognitive	Explain the clinical features, investigations, management, prognosis, and complications of scleroderma/Systemic sclerosis
	Polymyositis and dermatomyositis	1	69	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of polymyositis and dermatomyositis
	Sjogren Syndrome		70	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of Sjogren Syndrome
	Giant cell arteritis and polymyalgia Rheumatica	1	71	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of Giant cell arteritis and polymyalgia Rheumatica
	Polyarteritis nodosa	1	72	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of Polyarteritis nodosa
	Wegener granulomatosis		73	Cognitive	Explain the clinical features, investigations, management, prognosis, and complications of Wegener granulomatosis
	Vasculitides	1	74	Cognitive	Classify vasculitides, their clinical features, diagnostic approach, and management
			75	Cognitive	Explain the clinical features, investigations, management, prognosis, and complications of

					Henoch-Schönlein purpura
			76	Cognitive	Explain the clinical features, investigations, management, prognosis, and complications of Behçet syndrome
Pediatrics	Kawasaki disease	2	77	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of Kawasaki syndrome
			78	Cognitive	Explain the clinical features, investigations, management, prognosis and complications of SLE in children
Nephrology	Renal involvement in different autoimmune disorders	2	79	Cognitive	Classify different pathological entities involving the kidneys in SLE, Rheumatoid arthritis and other autoimmune disorders
			80	Cognitive	Explain the renal complications and their management in SLE and Rheumatoid arthritis.

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