STUDY GUIDE	
PROGRAM	BDS
COURSE TITLE	General Medicine
ACADEMIC YEAR	3 rd Year, 2023
INTRODUCTION	This course deals with common diseases faced in the Pakistani community.
	These conditions range from simple contagious conditions like the
	common flu to more serious conditions like Dengue and Covid-19
	infection. Dental surgeons need to have a sound basic knowledge of non-
	communicable conditions like Diabetes Mellitus and Hypertension or
	common malignancies. Each of these has the potential to affect healing
	after dental procedures. Bleeding diatheses are not uncommon in this part
	of the world. A dental practitioner must always be aware of this risk in a
	patient on his/ her first visit.
	This course, hence, prepares the dental students for dealing with common
	medical conditions encountered in routine practice.
RATIONALE	Dentists manage patients who may have co-morbidities; they may have
	systemic diseases like Diabetes Mellitus or Hypertension etc. It becomes
	essential for the treating dental surgeon to know the basis of common
	conditions, infectious or non-infectious, acute or chronic, so that s/he may
	tailor the dental management plan accordingly.
OUTCOMES	By the end of the course, 3 rd year BDS students will be able to justify
	management plans for common medical conditions including common
	medical emergencies)
DEPARTMENT	Internal Medicine
INVOLVED	
COURSE	By the end of the course, the students will be able to:
OBJECTIVES	INTRODUCTION TO GENERAL MEDICINE
	Discuss scope of general medicine.
	 Identify goals of studying general medicine.
	• Discuss the importance of a doctor and patient relation.
	• Explain the importance of ethics when managing patients.

HISTORY, GENERAL PHYSICAL EXAMINATION, INVERSITGATIONS, AND
DIAGNOSIS
 Interpret the general physical examination findings of patients
presenting with medical problems
<u>GI & LIVER DISEASES</u>
Discuss the etiology, clinical features, types, differential diagnosis,
investigations, diagnosis, management and complications of the
following GI/ Liver diseases:
- GERD;
- Gastritis/ Peptic Ulcer;
- Gastroenteritis;
- Malabsorption;
- IBS / IBD;
- Hepatitis (Acute / Chronic);
- CLD and Hepatocellular Carcinoma.
CARDIOVASCULAR DISEASES
Discuss the etiology, clinical features, types, differential diagnosis,
investigations, diagnosis, management and complications of the
following cardiovascular diseases:
- Ischemic Heart Disease (Angina / Myocardial Infarction)
- CHF
- Rheumatic Fever
- Infective Endocarditis
- Hypertension
 Valvular Heart Diseases (MS / MR / AS / AR)
 Congenital Heart Diseases (VSD / TOF)
<u>RESPIRATORY DISEASES</u>
Discuss the etiology, clinical features, types, differential diagnosis,
investigations, diagnosis, management and complications of the
following Respiratory diseases:
- TB

 and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	
 Asthma Bronchagenic Carcinoma Bronchiectasis Pneumothorax Pleural effusion NEUROLOGICAL DISEASES Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidne and urinary tract:	- COPD
 Bronchogenic Carcinoma Bronchiectasis Pneumothorax Pleural effusion NEUROLOGICAL DISEASES Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidnet and urinary tract:	- Pneumonia
 Bronchiectasis Pneumothorax Pleural effusion NEUROLOGICAL DISEASES Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidnet and urinary tract:	- Asthma
 Pneumothorax Pleural effusion NEUROLOGICAL DISEASES Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidne and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of:	- Bronchogenic Carcinoma
 Pleural effusion <u>NEUROLOGICAL DISEASES</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Meningitis Novement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidner and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM	- Bronchiectasis
NEUROLOGICAL DISEASES • Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidnet and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of:	- Pneumothorax
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 management and complications of the following neurological conditions/diseases: Headache Stroke Epilepsy Parkinson's disease Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	NEUROLOGICAL DISEASES
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 Stroke Epilepsy Parkinson's disease Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	conditions/diseases:
 Epilepsy Parkinson's disease Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Headache
 Parkinson's disease Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Stroke
 Meningitis Movement disorders Dementia DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Epilepsy
 Movement disorders Dementia <u>DISEASES OF KIDNEY AND URINARY TRACT</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Parkinson's disease
 Dementia <u>DISEASES OF KIDNEY AND URINARY TRACT</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Meningitis
 DISEASES OF KIDNEY AND URINARY TRACT Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Movement disorders
 Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Dementia
 management and complications of the following diseases of kidned and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) DISEASES OF ENDOCRINE SYSTEM Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	DISEASES OF KIDNEY AND URINARY TRACT
 and urinary tract: Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	• Discuss the etiology, clinical features, types, differential diagnosis,
 Acute Kidney Injury (AKI) Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	management and complications of the following diseases of kidney
 Chronic Kidney Disease (CKD) Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	and urinary tract:
 Nephrotic and Nephritic Syndromes Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Acute Kidney Injury (AKI)
 Electrolyte imbalances (sodium, potassium, calcium) <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	- Chronic Kidney Disease (CKD)
 <u>DISEASES OF ENDOCRINE SYSTEM</u> Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: 	 Nephrotic and Nephritic Syndromes
• Discuss the etiology, clinical features, types, differential diagnosis, management and complications of:	- Electrolyte imbalances (sodium, potassium, calcium)
management and complications of:	DISEASES OF ENDOCRINE SYSTEM
	• Discuss the etiology, clinical features, types, differential diagnosis,
- Pituitary Diseases	management and complications of:
	- Pituitary Diseases
- Thyroid Disorders	- Thyroid Disorders

- Parathyroid Disorders
- Adrenal Disorders
- Diabetes Mellitus
- Vitamin Deficiencies
INFECTIOUS DISEASES
Discuss the sources, etiology, clinical features, types, differential
diagnosis, management and complications of the following
Infectious diseases:
- Tetanus
- Malaria
- Viral fever (Dengue, Congo Crimean fever, influenza,
Chikungynea and Covid-19)
- HIV
- Mumps
- Sepsis
- Hospital Acquired Infections
BLOOD DISORDERS
Discuss the sources, etiology, clinical features, types, differential
diagnosis, management and complications of the following blood
disorders:
- Anemia
- Leukemia
- Lymphoma
- Thrombocytopenia and ITPs
- Bleeding disorders/anticoagulants/antithrombotic therapy
- Shock (anaphylactic, hypovolemic)
DISEASES OF JOINTS AND BONES
• Discuss the sources, etiology, clinical features, types, differential
diagnosis, management and complications of the following
diseases of joints and bones:
- Systemic Lupus Erythematosus

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	- spondyloarthropathies
	- Rheumatoid Arthritis
	- Seronegative Arthropathies
	- Osteoporosis/Osteomalacia
	- Osteoarthritis
CLINICAL SKILLS	INSTRUMENT IDENTIFICATION
	 Discuss the uses of the following instruments:
	- I/V cannula
	- Nasogastric tube
	- Tracheal tube
	- Foley's catheter
	- Insulin Syringe
	- Oxygen masks
	PROCEDURES:
	 Administer I/M and I/V and S/C injections
	Maintain I/V line via cannula
	Perform cardiopulmonary resuscitation (CPR) on mannequins
	X-RAY INTERPRETATIONS:
	Interpret X-rays of patients presenting with the following conditions:
	- Cardiomegaly
	- Pleural effusion
	- Pneumothorax
	- Consolidation
	LAB INTERPRETATION:
	 Interpret the reports of the following tests:
	- Blood CP
	- Liver Function Tests (LFTs)
	- Thyroid profile
	- Fasting and random blood sugar tests (FBS and RBS) and HbA1C
	- Prothrombin Time (PT) and activated Partial Thromboplastic Time
	(aPTT)

	- Urea, creatinine and electrolytes (UCE)
	- Urine D/R
CLINICAL SKILLS	HISTORY, GENERAL PHYSICAL EXAMINATION, INVERSITGATIONS, AND
	DIAGNOSIS
	Obtain history of patients presenting with medical problems
	according to the standard protocol
	Perform general physical examination of patients presenting with
	medical problems according to the standard protocol
	GI/LIVER DISEASES
	Obtain comprehensive history of patients presenting to the general
	medicine clinics with complaints of GI/ Liver disease.
	Perform clinical examinations on patients presenting to the general
	medicine clinics with complaints of GI/ Liver disease
	<u>CARDIOVASCULAR DISEASES</u>
	Obtain comprehensive history of patients presenting to the general
	medicine clinics with complaints of cardiovascular disease pain
	and symptoms (chest pain, dyspnea, syncope)
	Perform clinical examinations on patients presenting to the general
	medicine clinics with complaints of cardiovascular disease pain
	and symptoms (chest pain, dyspnea, syncope)
	RESPIRATORY DISEASES
	Obtain comprehensive history of patients presenting to the general
	medicine clinics with complaints of respiratory disease pain and
	symptoms (cough, chest pain, wheezing, haemoptysis)
	Perform clinical examination (front and back of chest) of patient
	presenting to the general medicine clinics with complaints of
	respiratory diseases
	NEUROLOGICAL DISEASES
	Obtain comprehensive history of patients presenting to the general
	medicine clinics with complaints of neurological disease pain and
	symptoms (headache, dizziness)

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	Assess higher mental functions of patients presenting to the general
	medicine clinics:
	- Level of consciousness
	- Behavior
	- Speech
	- Memory
	Perform examination of:
	- Cranial nerves
	- Motor system and reflexes
	- Sensory system:
	 Crude touch, pain and temperature
	✓ Fine touch, pressure, vibration, joint position
	 Two-point localization and two-point discrimination
	✓ Cerebellar system
	COUNSELLING & PATIENT EDUCATION:
	Counsel the patient for the hazards of needle stick injury and its
	precautions following the recommended guidelines
	Counsel the patient about the management of diabetes &
	hypertension and their complications (dietary, life style modification
	and pharmacological) following the recommended guidelines
	Educate the patient regarding hazards of tobacco smoking and
	smoking cessation techniques
INTERNAL	10% (Pre-professional Examination, Midterm Examination, Assignments
ASSESSMENT	and Class Presentations, Clinical Logbooks)
ANNUAL	90% (MCQS, OSCE)
EXAMINATION	
COURSE	This course will be evaluated as per JSMU & HEC policies
EVALUATION	
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