



**ALTAMASH INSTITUTE OF DENTAL MEDICINE
(JINNAH SINDH MEDICAL UNIVERSITY)**

**BDS Third Year
General Medicine
Study Guide**

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. 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.

Outcome:

By the end of the course, 3rd year BDS students will be able to justify management plans for common medical conditions including common medical emergencies

Teaching and learning: General medicine classes have been conducted at Altamash General Hospital (Wednesday and Saturday).

- Flipped Classroom (FC)
- Interactive lectures (IL)
- Clinical demonstration (Clinical demo)
- Role play (RP)
- Tutorials
 - a. Cased Based Learning (CBL)
 - b. Small group discussion (SGD)

Assessment tools:

1. Multiple Choice Questions: (MCQs)
 - One Correct Type
 - One Best Type
2. Mini Clinical Examination (MiniCEX)
3. Observed Structured Clinical Examination (OSCE)



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s.n o.	Topic	Course Objectives: By the end of the course, 3rd year students will be able to:	Teaching method	Assessment Tool
1.	Introduction to General Medicine	<ul style="list-style-type: none"> • 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. 	IL	MCQ (1C)
2.	History, General Physical Examination, Investigations, and Diagnosis	Interpret the general physical examination findings of patients presenting with medical problems	IL	MCQ(1B)
3.	Gi & Liver Diseases	Discuss the etiology, clinical features, types, differential diagnosis, investigations, diagnosis, management and complications of the following GI/ Liver diseases: <ul style="list-style-type: none"> - GERD - Gastritis/ Peptic Ulcer - Gastroenteritis - Malabsorption - IBS / IBD - Hepatitis (Acute / Chronic) - CLD and Hepatocellular Carcinoma. 	IL CBL	MCQ(1B)
4.	Cardiovascular Diseases	Discuss the etiology, clinical features, types, differential diagnosis, investigations, diagnosis, management and complications of the following cardiovascular diseases: <ul style="list-style-type: none"> a) Ischemic Heart Disease (Angina / Myocardial Infarction) 	IL CBL	MCQ(1B)



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		<ul style="list-style-type: none"> b) CHF c) Rheumatic Fever d) Infective Endocarditis e) Hypertension f) Valvular Heart Diseases (MS / MR / AS / AR) g) Congenital Heart Diseases (VSD / TOF) 		
5.	Respiratory Diseases	<p>Discuss the etiology, clinical features, types, differential diagnosis, investigations, diagnosis, management and complications of the following Respiratory diseases:</p> <ul style="list-style-type: none"> a) TB b) COPD c) Pneumonia d) Asthma e) Bronchogenic Carcinoma f) Bronchiectasis g) Pneumothorax h) Pleural effusion 	<p align="center">IL CBL</p>	<p align="center">MCQ(1B)</p>
6.	Neurological Diseases	<p>Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following neurological conditions/diseases:</p> <ul style="list-style-type: none"> a) Headache b) Stroke c) Epilepsy d) Parkinson's disease e) Meningitis f) Movement disorders g) Dementia 	<p align="center">IL CBL</p>	<p align="center">MCQ(1B)</p>
7.	Diseases of Kidney and Urinary Tract	<p>Discuss the etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of kidney and urinary</p>	<p align="center">IL</p>	<p align="center">MCQ(1B)</p>



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		tract: a) Acute Kidney Injury (AKI) b) Chronic Kidney Disease (CKD) c) Nephrotic and Nephritic Syndromes d) Electrolyte imbalances (sodium, potassium, calcium)		
8.	Diseases of Endocrine System	Discuss the etiology, clinical features, types, differential diagnosis, management and complications of: a) Pituitary Diseases b) Thyroid Disorders c) Parathyroid Disorders d) Adrenal Disorders e) Diabetes Mellitus f) Vitamin Deficiencies	IL	MCQ(1B)
9.	Infectious Diseases	Discuss the sources, etiology, clinical features, types, differential diagnosis, management and complications of the following Infectious diseases: a) Tetanus b) Malaria c) Viral fever (Dengue, Congo Crimean fever, influenza, Chikungynea and Covid-19) d) HIV e) Mumps f) Sepsis g) Hospital Acquired Infections	FC	MCQ(1B)
10.	Blood Disorders	Discuss the sources, etiology, clinical features, types, differential diagnosis,	IL	MCQ(1B)



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		<p>management and complications of the following blood disorders:</p> <ol style="list-style-type: none"> a) Anemia b) Leukemia c) Lymphoma d) Thrombocytopenia and ITPs e) Bleeding disorders/anticoagulants/antithrombotic therapy f) Shock (anaphylactic, hypovolemic) 		
11.	Diseases of Joints and Bones	<p>Discuss the sources, etiology, clinical features, types, differential diagnosis, management and complications of the following diseases of joints and bones:</p> <ol style="list-style-type: none"> a) Systemic Lupus Erythematosus b) Spondyloarthropathies c) Rheumatoid Arthritis d) Seronegative Arthropathies e) Osteoporosis/Osteomalacia f) Osteoarthritis 	IL	MCQ(1B)
PRACTICALS				
1.	Instrument Identification	<p>Discuss the uses of the following instruments:</p> <ol style="list-style-type: none"> a) I/V cannula b) Nasogastric tube c) Tracheal tube d) Foley's catheter e) Insulin Syringe f) Oxygen masks 	IL SGD	OSCE
2.	Procedures	<ul style="list-style-type: none"> • Administer I/M and I/V and S/C injections • Maintain I/V line via cannula • Perform cardiopulmonary 	FC	OSCE



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		resuscitation (CPR) on mannequins		
3.	X-Ray Interpretations	Interpret X-rays of patients presenting with the following conditions: a) Cardiomegaly b) Pleural effusion c) Pneumothorax d) Consolidation	IL CBL	OSCE MCQ(1B)
4.	Lab Interpretation	Interpret the reports of the following tests: a) Blood CP b) Liver Function Tests (LFTs) c) Thyroid profile d) Fasting and random blood sugar tests (FBS and RBS) and HbA1C e) Prothrombin Time (PT) and activated Partial thromboplastic Time (aPTT) f) Urea, creatinine and electrolytes (UCE) g) Urine D/R	FC	MCQ(1B) OSCE
CLINICAL SKILLS			Teaching method	Assessment Tool
By the end of the year students will be able to:				
1.	History, General Physical Examination, Invesitgations, and Diagnosis	<ul style="list-style-type: none"> • 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 	Clinical Demo	OSCE
2.	Gi/Liver Diseases	<ul style="list-style-type: none"> • 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 	Clinical Demo	OSCE



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		general medicine clinics with complaints of GI/ Liver disease		
3.	Cardiovascular Diseases	<ul style="list-style-type: none"> • 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) 	Clinical Demo	OSCE
4.	Respiratory Diseases	<ul style="list-style-type: none"> • 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 	Clinical Demo	OSCE
5.	Neurological Diseases	<ul style="list-style-type: none"> • Obtain comprehensive history of patients presenting to the general medicine clinics with complaints of neurological disease pain and symptoms (headache, dizziness) • Assess higher mental functions of patients presenting to the general medicine clinics: <ol style="list-style-type: none"> a) Level of consciousness b) Behavior c) Speech d) Memory 	Clinical Demo	OSCE



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		<ul style="list-style-type: none"> • Perform examination of: <ul style="list-style-type: none"> a) Cranial nerves b) Motor system and reflexes c) Sensory system: <ul style="list-style-type: none"> · Crude touch, pain and temperature · Fine touch, pressure, vibration, joint position · Two-point localization and two-point discrimination · Cerebellar system 		
6.	Counselling & Patient Education	<ul style="list-style-type: none"> • 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 	Role Play	OSCE

Reading Sources:

Books:

- Harrison's Principles of Internal Medicine (Vol.1 & Vol.2) latest edition
- Davidson's Principles and Practice of Medicine ((latest edition)

Internet resources: With easy excess to digital library students will use internet resources with added time flexibility to enrich and update their knowledge and its application.

Library: It provides wealth of resources, space to study alone or in a group. It also provide world of books to discover and borrow.



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Assessment Criteria:

10% marks from internal assessment will be added to the final marks, inclusive of:

- Mid-term examination
- Mock examination
- Assignments and Class presentations
- Clinical Logbooks

Annual Examination:

University Annual examination carries 90% marks and Theory exam will be based on MCQs and Clinical / Professional /communication skills will be assessed by OSCE. .

Course Evaluation:

- Pass/fail ratio of continuous and summative assessments will be evaluated
- 75% attendance is mandatory to be eligible for annual professional examination
- Feedback will be taken
 - Regarding course from students and faculty
 - Student feedback regarding faculty
 - Faculty feedback of students

Teaching Faculty:

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For queries:

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