

DEPT OF MEDICINE

ACMS & BHDC

THE SYLLABUS

The course syllabus in General Medicine comprises of the following broad divisions: Orientation to clinical Medicine, Symptomatology of diseases of various systems, Approaches to specific disorders, Infectious Diseases, Disorders of Cardiovascular system, Gastrointestinal system, Kidney and Urinary System, Rheumatology, Hematology, Neurology, Endocrine system, General topics - poisonings & emergencies and Revision.

TOPIC WISE DISTRIBUTION OF SYLLABUS :

LECTURE PROGRAMME: ORIENTATION TO CLINICAL MEDICINE

Srl .No	Topic
1	Introduction to history of modern medicine and the Hippocrates Oath
2.	Bedside Conduct
3.	Communication Skills
4	Doctor – Patient Relationship
5.	Standard/ Universal Precautions
6	Theatre in Education-(Role play)- Some real life problem situations in patient communication- Language barrier, Social barrier, Angry patient, Talkative patient, Informed patient, Inattentive doctor

LECTURE PROGRAMME: - SYMPTOMATOLOGY OF DISEASES OF VARIOUS SYSTEMS

Srl .No	Topic
1.	Concept and Objectives of History Taking
2.	Symptomatology of Cardiovascular Diseases
3.	Symptomatology of Respiratory diseases
4.	Symptomatology of Gastrointestinal and Hepatobiliary diseases
5.	Symptomatology of Nervous system diseases
6.	Symptomatology of Genitourinary diseases
7.	Symptomatology of Metabolic and Endocrine diseases

LECTURE PROGRAMME - APPROACHES TO SPECIFIC DISORDERS

Srl .No	Topic
1.	Approach towards a patient with edema
2.	Approach towards a patient with hypotension and shock
3.	Approach towards Fluid and Electrolytes abnormalities
4.	Approach towards Acid -Base abnormalities
5.	Approach towards a patient with Headache, Syncope , Seizures and Coma
6.	Approach towards a patient with abnormal sensory and motor functions
7.	SIRS and Sepsis. Approach towards a patient with Fever.
8.	Approach towards a patient with Weight Loss
9.	Approach towards a patient with Lymphadenopathy
10.	Approach towards a patient with Hepatosplenomegaly
11.	Approach towards a patient with Anemia
12.	Approach towards a patient with Jaundice
13.	Approach to a case of diarrheal disease
14.	Approach towards a patient with ascites

LECTURE PROGRAMME – INFECTIONS

Srl. No	Topic
1.	Acute Febrile Syndrome- Dengue
2.	Chickungunya
3.	Influenza and Influenza like illnesses
4.	Infectious Mononucleosis
5.	FUO
6.	Salmonellosis/Typhoid

7.	Malaria
8.	Leptospirosis
9.	Visceral Leishmaniasis
10.	Diarrheal infections
11.	Tetanus & other Clostridial infections
12.	Meningitis (Nisseria, S Pneumo, H influenzae)
13.	Anthrax
14.	Plague
15.	Brucellosis
16.	Syphilis
17.	Rabies
18.	Japanese Encephalitis & Herpes Simplex Encephalitis
19.	Extra intestinal tissue parasites I (Amebiasis; Filariasis)
20.	Extra intestinal tissue parasites I (Hydatid Disease & Cysticercosis)
21.	Systemic Fungal Infections
22.	HIV infection and common opportunistic infections
23.	HIV infection and Antiretroviral therapy in adults
24.	HIV and Pre and post Exposure Prophylaxis
25.	Bioterrorism & its agents

LECTURE PROGRAMME - CARDIOLOGY

Srl .No	Topic
1.	Congestive Cardiac Failure – Pathophysiology, Clinical Features and Management
2.	Left Ventricular Failure
3.	Approach to ECG and its interpretation
4.	Systemic Hypertension

5.	Pulmonary Hypertension
6.	Common presentations of Congenital Heart Disease – ASD , VSD , PDA, Eisenmenger
7.	Coarctation, Fallot’s Tetralogy
8.	Acute Rheumatic Fever
9.	Valvular Heart Disease I- MS
10.	Valvular Heart Disease II- MR
11.	Valvular Heart Disease III- AS
12.	Valvular Heart Disease IV- AR
13.	Infective Endocarditis
14.	IHD & Acute Myocardial Infarction
15.	ECG in IHD - STEMI and Non STEMI
16.	Myocarditis
17.	Pericardial Diseases
18.	ECG: Rhythm Disturbances- Bradyarrhythmias , Tachyarrhythmias and Heart Blocks
19.	ECG - Effects of drugs and electrolytes

LECTURE PROGRAMME - NEPHROLOGY

<u>Srl .No</u>	<u>Topic</u>
1.	Symptomatology of Renal Diseases
2.	Oliguria, Polyuria and Hematuria
3.	Urinalysis and Kidney Function Tests
4.	Fluid Electrolyte Balance
5.	Acid Base Balance
6.	Urinary Tract Infection
7.	ARF (Acute Kidney Injury)

8.	Acute Glomerulonephritis & RPGN
9.	Nephrotic Syndrome
10.	Chronic Kidney Disease - Overview
11.	Chronic Kidney Disease- CIN
12.	Chronic Kidney Disease- CGN
13.	Renal Replacement Therapy
14.	Kidney in Systemic Diseases- (DM, HT, Pregnancy, Collagen Vascular Diseases, Drugs)

LECTURE PROGRAMME – GASTROENTEROLOGY

<u>Srl .No</u>	<u>Topic</u>
1.	Symptomatology of GI System
2.	Investigations of the Gastrointestinal System
3.	Dysphagia and Esophageal diseases
4.	Dyspepsia and Acid Peptic Disorders
5.	GI Bleeding
6.	Acute Diarrheal Diseases
7.	Chronic Diarrhea/ Malabsorption Syndrome
8.	Inflammatory Bowel Disease
9.	Irritable Bowel Syndrome
10.	Acute infective diarrhea
11.	Acute Viral Hepatitis A and E
12.	Acute Hepatic Failure
13.	Viral Hepatitis B
14.	Hepatitis C
15.	Chronic Liver Disease and Cirrhosis Liver
16.	Acute Pancreatitis
17.	Chronic Pancreatitis

18.	Alcoholism
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LECTURE PROGRAMME – NEUROLOGY

<u>Srl .No</u>	<u>Topic</u>
1.	Headache
2.	Blood supply of the brain
3.	Cerebrovascular Diseases & Management
4.	Acute Meningitis
5.	Chronic Meningitis
6.	Brain Abscess and Granulomas
7.	Encephalitis (HSE, JE & Rabies)
8.	Demyelinating disorders/ Multiple Sclerosis
9.	Myelopathies (Compressive and non-compressive)
10.	Polyradiculopathies
11.	Neuropathies
12.	Ataxias and Cerebellar Diseases
13.	Parkinsonism & other Extra Pyramidal Disorders
14.	Seizure and epileptic disorders
15.	Dementias
16.	Motor Neuron Disease
17.	Diseases of Neuromuscular Junction- Myasthenia Gravis
18.	Myopathies and Myositis
19.	Autonomic Disorders
20.	Raised Intracranial Tension- (Tumors and Hydrocephalus)

LECTURE PROGRAMME – ENDOCRINOLOGY

<u>Srl .No</u>	<u>Topic</u>
1.	Principles of Endocrinology
2.	Hypothalamus and Pituitary Hypofunction (Hypopituitarism and Diabetes insipidus)
3.	Hypothalamus and Pituitary Hyperfunction (Acromegaly and Hyperprolactinemia)
4.	Thyroid Diseases-Hyperfunction, hypothyroidism and thyroiditis
5.	Parathyroid Diseases
6.	Osteoporosis and Osteomalacia
7.	Diabetes Mellitus & its complications
8.	Hypoglycemia
9.	Adrenal Cortical Hyperfunction
10.	Adrenal Cortical Hypofunction
11.	Phaeochromocytoma
12.	Multiple endocrine dysfunction
13.	Disorders of reproductive system (Precocious and Delayed Puberty, Androgenitization and feminization)

LECTURE PROGRAMME – HEMATOLOGY

<u>Srl .No</u>	<u>Topic</u>
1.	Introduction to Hematopoetic System
2.	Iron Deficiency Anemia
3.	Macrocytic Anemias
4.	Hemolytic anemia
5.	Hemoglobinopathies (Thalassemia, Sickle Cell Anemia)
6.	Bleeding Disorders- vWD & Hemophilia
7.	Bleeding Disorders- DIC and Platelet defects
8.	Transfusion Therapy
9.	Aplastic Anemia

10.	Acute Leukemias
11.	Chronic Leukemias
12.	Lymphomas
13.	Bone Marrow Transplantation

LECTURE PROGRAMME – RHEUMATOLOGY

<u>Srl .No</u>	<u>Topic</u>
1.	Introduction to Immune system and Autoimmune diseases
2.	Allergies and Anaphylaxis and Anaphylactic Shock
3.	Rheumatoid Arthritis
4.	Systemic Lupus Erythematosus
5.	Progressive Systemic Sclerosis
6.	Systemic vasculitidis
7.	Sjogren's and Behcet's Syndromes
8.	Antiphospholipid Syndrome
9.	Sarcoidosis
10.	Gout and crystal induced arthropathies
11.	Seronegative Arthritis
12.	Ankylosing Spondylitis
13.	Steroids and Disease Modifying Anti-rheumatic Drugs

LECTURE PROGRAMME – MISCELLANEOUS TOPICS

<u>Srl .No</u>	<u>Topic</u>
1.	Organophosphorous Poisoning
2.	Aluminium Phosphide poisoning
3.	Snake Bite and other bites

4.	Heat exhaustion, heat stroke and hyperpyrexia
5.	Hypothermia
6.	Drowning, Near Drowning and decompression sickness (Underwater illnesses)
7.	High Altitude Sickness
8.	Obesity and Dyslipidemia
9.	Weight loss
10.	Eating disorders
11.	Metabolic syndrome
12.	Nutritional disorders- Fat soluble vitamin deficiencies
13.	Nutritional disorders- Water soluble vitamin deficiencies
14.	Parenteral nutrition and Therapeutic diets (Diabetic , renal , diets)
15.	Scoring systems in critical care- APACHE/ GCS/ Others
16.	Brain Death, Transplant and Organ harvest
17.	Euthanasia
18.	Pain Management and Palliation
19.	Medical Ethics

LECTURE PROGRAMME – EMERGENCIES AND REVISION

<u>Srl .No</u>	<u>Topic</u>
1.	Emergencies- AMI
2.	Emergencies- Acute LVF & CCF
3.	Emergencies- Acute Pulmonary Embolism
4.	Emergencies- Shock (hypovolemic, cardiogenic and warm shock)
5.	Emergencies- Acute Asthma/ Pneumothorax/ Resp Failure
6.	Emergencies – Status Epilepticus
7.	Emergencies- Cerebrovascular stroke
8.	Emergencies- Acute Renal Failure

9.	Emergencies – Metabolic/ endocrine emergencies I (Diabetic)
10.	Emergencies – Metabolic/ endocrine emergencies II Thyroid storm, Myxedemic Coma, Addison's crisis, Tetany, Pituitary apoplexy
11.	Emergencies- Anaphylactic shock
12.	Emerging Infections- Ebola, SARS, Swine Flu, Avian flu, etc

TUTORIALS - LABORATORY REPORTS AND INTERPRETATION

<u>Srl.No</u>	<u>Topic</u>
1.	Liver Function Tests
2.	Interpretation of CSF
3.	Interpretation of Peripheral blood and Bone marrow examination
4.	Interpretation of Sputum analysis
5.	Interpretation of urinalysis and KFT
6.	Interpretation of Pleural and Ascitic Fluid
7.	Drugs and Instruments
8.	X Ray Chest- CVS
9.	X Ray Chest- Chest
10.	Other Imaging modalities - CT and MRI
11.	ECGS – Interpretation and Analysis

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