



GENERALMEDICINE STUDY GUIDE MBBS YEAR V 2024-2025



BAQAI MEDICAL COLLEGE BAQAI MEDICAL UNIVERSITY

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VISION&MISSION

Baqai Medical University Vision Statement:

Baqai Medical University is a community based and community oriented center of excellence striving to mold students to become competent and caring health professionals, groomed to be social leaders capable of improving health, education and socioeconomic well-being locally, nationally and globally.

Bagai Medical University Mission Statement:

The mission of Baqai Medical College is to be recognized as a center of excellence in education, research, patient care and community services by producing highly capable and knowledgeable professionals

Baqai Medical College Vision Statement:

Our vision is to enhance the access and excellence in medical education and research, with the aim of capacity building of students and faculty through innovations, and science and technology competencies, to achieve rapid and sustainablehealth. Themedical graduate thus produced will be informed and trained enough to serve the community better, and to be advisor to the national and international health organizations.

Baqai Medical College Mission Statement:

The mission of the Baqai medical college is to produce medical graduates, who are accomplished individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

OUTCOMES OF THE MBBS PROGRAM

By the end of five years MBBS program, The Baqai Medical College graduate will be able to:

- Write and report focused history, perform physical examination, formulate a diagnosis and management plan for common health problems.
- Utilize knowledge of basic and clinical sciences for patient care.
- Apply evidence-based practices for protecting, maintaining and promoting the health of individuals, families and community.
- Identify problems, critically review literature, conduct research and disseminate knowledge
- Lead other team members as per situational needs for quality health service.
- Acquire professional behaviors that embodies lifelong learning, altruism, empathy and cultural sensitivity in provision healthcare service.

POLICIES AND PROCEDURES

Code of Conduct and Maintenance of Discipline of Students Regulations
Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (a) Breach of any rule public morals ,such as:
 - Use of indecent or filthy language;
 - Use of immodest dress:
 - Use of undesirable remarks or gestures; and
 - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- (b) Defiance of authority
- (c) Action, defamatory of and derogatory to Islam
- (d) Immorality
- (e) Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- (f) False personating or giving false information or willful suppression of information, cheating or deceiving.

- (g)Inciting or staging a walk- out, a strike or an unauthorized procession.
- (h) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- (i) Visiting without a pass places which are not to be visited with out a pass.
- (j) Visiting places declared out of bounds for students

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No. student will be admitted to the facilities of the library, transport or the canteen unless he /she is in possession of the Identity Card

MESSAGE FROM THE DEAN & CHAIRMAN:

Dear Student physician, Assalam-o-Alaikum

Welcome to Final year Medicine Clerkship Rotation. This study guide provides you an overall picture of your rotation. This will prepare you well advance to acquire the necessary knowledge. The learning objectives prior to a specifically designed section will help you learn and retain most of the things required as a doctor.

Your study plan during your rotation comprised of following

- a) Classroom Lecture
- b) Clinical Clerkship
- c) Ward Rounds &OPD with consultant
- d) Structured Tutorial
- e) Evening and Night duties with residents

The material accompanying this document outlines our objectives, expectations & grading criteria for the course. Please take a moment to review them.

You are expected to work up at least one patient per long & short call day & submit written reports to your immediate consultant. Being a Final Year MBBS student, the most important section of these reports will be assessment & plan.

Please review "Preparing & Presenting a case". It provides important guidelines.

Additionally you have received a ward meeting & journal club schedule. It is mandatory to attend these meetings.

Ask for feedback early & often. Take advantage of teaching situations & make sure your facilitators understand what you want out of the rotation.

A summary of grading policy is attached.

Enjoy your clerkship. Your learning experience will be dependent upon your enthusiasm & availability. Feel free to contact me & your coordinator any time & please let us know as soon as problems arise so that we may deal with the merely.

Professor Jameel Ahmed

MRCP,FRCP,FPSIM
Dean, Faculty of Medicine
Chairman Department of Medicine
Baqai Medical University

FACULTYLISTOFMEDICINE

Professor	Jameel Ahmed	Dean, Chairman & Head
Professor	Abdul Basit	
Professor	Yaqoob Ahmedani	
Professor	Karim Kammeruddin	
Professor	Dr. Adil Khan	
Associate Professor	Dr Musarrat Riaz	Medicine, Endocrinology
Associate Professor	Dr Zahid Miyan	Medicine, Endocrinology
Assistant Professor	Dr. Masooda Fatima	
Assistant Professor	Dr. Saqib ur Rehman	
Assistant Professor	Dr. Zahid Shah	
Assistant Professor	Dr.Anita Haroon	Nephrology
Assistant Professor	Dr. Sumayyah Liaquat	Neurology
Assistant Professor	Dr. Saima Askari	Medicine, Endocrinology
Assistant Professor r	Dr Adeel Ahmed	Medicine, Gastroenterology.
Assistant Professor	Dr. Mahira Shafi	Psychiatry

LEARNINGOBJECTIVES

LECTURE BASED

At the end of 1 hour lecture, the students should be able to:

ACUTE HEPATITIS

- Define hepatitis and differentiate between acute and chronic hepatitis
- Quoteregardingetiologicfactorsofacutehepatitisincludingvirusesand other microbial infection as well as systemic diseases and drugs.
- Discuss the pathophysiology of hepatitis
- Enlist the clinical features with which patient present
- Formulate a proper plan for diagnosis of hepatitis as well as specific investigations to explore the etiology as well as tests to determine possible complications
- Prescribe symptomatic as well as curative treatment

CHRONIC HEPATITIS

- Define hepatitis and differentiate between acute and chronic hepatitis
- Quoteregardingetiologicfactorsofchronichepatitisincludingmicrobes,drugs as well as systemic diseases effecting liver
- Enlist the names of viruses causing chronic hepatitis mainly hepatitis B and C
- Discuss the pathogenesis of chronic hepatitis.
- Enlist the clinical presentation of chronic hepatitis
- Discuss the investigations which are required to for confirmation of the diagnosis as well as evaluation of patients with chronic hepatitis B and C infections
- Formulate a proper management plan to treat both infection

CHRONIC LIVER DISEASE

- Discuss etiology and patho physiology of chronic liver disease
- Recite the possible symptoms and signs inpatient both compensated and non compensated disease
- Enlist the possible complications of the chronic liver disease
- Formulate a proper diagnostic plan including serological as well Radiological tests
- Discuss child pugh scoring of chronic liver disease
- Demonstrate all possible treatment options including pharmacological as well as interventional measures
- Counsel the patient and family regarding the possible complications in which patient should be immediately taken to emergency room of a tertiary care hospital

FATTY LIVER

- Enlistetiologicalfactorsincludingalcoholabuse,lifestylefactorsand
 Diseases as well as drugs likely to produce fatty liver disease
- Discuss the pathophysiology of the disease
- Enlist the possible signs and symptoms
- Describe test required to diagnose fatty liver diseases
- Prescribe treatment options for the disease
- Counsel the patient regarding required life style changes as well as inform patient about the possible complications which can occur if these measures are not taken

HYPERTENSION

- Define hypertension
- Explain etiology pathogenesis and staging of hypertension
- Outline various clinical presentations and devices used to check blood pressure
- Demonstrate proper procedure of checking blood pressure using sphygmomanometer
- Evaluate hypertensive patients with laboratory, electro physiology and Radiological tests
- Recite the drugs available to manage hypertension ,discussing clinical indications, dosing and side effects and formulate a proper treatment plan of A given scenario
- Counsel the patient regarding the fact that it is a disease which cannot be cured but can be managed and discuss the patient regarding life style measures which should be carried out to prevent complications

ISCHEMIC HEART DISEASE

- Define ischemic heart disease and enlist multiple modifiable and non-Modifiable risk factors for the disease
- Discuss the pathogenesis of chronic hepatitis.
- Enlist the various clinical presentation of ischemic heart disease from angina to myocardial infarction
- Discuss the investigations which are required to for confirmation of the
 Diagnosis including radiology, laboratory, electrophysiological tests as well as interventional evaluation procedures
- Formulate a proper treatment plan regarding acute presentation of ischemic heart disease with unstable angina and myocardial infarction in Emergency room
- Design a proper management scheme for the patient including lifestyle
 Measure and pharmacological as well as interventional treatment
- Counsel the patient to follow the advised life style measures

CHRONIC HEART FAILURE

- Define heart failure and acute pulmonary edema
- Discuss etiology and pathophysiology of CCF
- Describe both the left and right ventricular failure as well as ystolic and
 Diastolic failure
- Recite the possible symptoms and signs in patient suffering from CCF
- Enlist the possible complications
- Formulateaproperdiagnosticplanincludingelectrophysiology,radiologyand
 Laboratory testing
- Demonstrate all possible treatment options including pharmacological as
 Well as interventional measures
- Formulate a treatment plan for patient presenting with acute pulmonary edema
- Counsel the patient and family regarding the possible complications in which patient should be immediately taken to emergency room of atertiary
 Care hospital.

ASTHMA

- Define asthma and discuss various types of asthma
- Quote regarding etiologic as well as precipitating factors for the disease
- Discuss the pathogenesis of asthma
- Enlist the clinical presentation of asthma both acute attack and chronic disease
- Describe the clinical staging of acute asthmatic attack as well as
 Classify chronic disease as mild, moderate and severe
- Discuss the investigations which are required to for confirmation of The diagnosis
- Formulate a proper management plan to treat both acute attacks and Chronic disease
- Counsel patient regarding the importance of daily drug dosing through inhalationalsolutions, and should be trained to use inhaler and nebulizers
 With a proper technique

CHRONIC OBSTRUCTVE PULMONARY DISORDERS

- Discuss etiology and pathophysiology of COPD Including all the possible
 Factors which result in development of the disease
- Discuss clinical classification of COPD as blue bloaters and pink puffers
- Recite the possible symptoms and signs in patient both during acute phase
 And chronic illness
- Enlist the possible complications of the disease
- Formulate a proper diagnostic plan including serological, spirometric as well Radiological tests
- Demonstrate all possible treatment options including pharmacological as well as interventional measures
- Counsel the patient to stop smoking and carry out required lifestyle changes
 And need for continuous oxygen delivery

PNEUMONIA

- Recalls the list of common viruses, parasites and bacteria causing pneumonia
- Review the pathophysiology linked with the infection
- Identify common clinical presentation of patient suffering from pneumonia
- Describe CURB65 scoring of pneumonia patients
- Enlist and interpret laboratorial as well as radiological investigations required
 To diagnose the disease
- Design and outline proper plan of management according to their severity
 And whether he should be treated in out patient or inpatient basis

PULMONARY TUBERCULOSIS

- Discussetiologyandpathophysiologyoftuberculosisgenerallyaswellasfor
 Pulmonary tuberculosis
- Recite the possible symptoms and signs in patient of the Disease manifestations
- Enlist the possible complications of the disease
- Formulate a proper diagnostic plan including serological, sputum, radiological
 As well as interventional studies
- Discuss a proper treatment plan including name of drugs which should be
 Given for the disease and their dosing as well as duration of treatment

- Counsel the patient regarding the severity of disease and life style measures which should be taken to prevent disease spread to family members and Close contacts
- Counsel the family regarding prophylactic methods available for contact Including drugs.

ACID PEPTIC DISEASE

- Describe basic etiology and pathophysiology of the acid peptic diseaseincludinggastritis,pepticulcerdiseaseandfunctionaldyspepsia
- Detect the patient at risk for the disease, and appraise the Predisposing factors
- Review various clinical presentations of the acid peptic disease
- Select appropriate investigations to diagnose the disease and judge its results using laboratory and endoscopy services along with microscopic evaluation of tissue taken the gut
- Determine a proper management plan for the patient including Pharmacological and non pharmacological treatment options and life style measures
- Counselthepatienttochangehisnutritionalandlifestylehabitstoaidin
 Treatment process

ABDOMINAL TUBERCULOSIS

- Describepathophysiologyofabdominaltuberculosisanddiscussitsintestinal,
 Peritoneal and lymphadeno pathy forms
- Relate appropriate signs and symptoms with the various clinical
 Presentation of the disease
- Prescribe the required laboratory and radiographic test along
 With interventional procedures, to support the diagnosis
- Select the drugs used in intensive and continuous phases of treatment
 With their dosing and total duration of treatment of both phases in accordance with world health organization TB guidelines.
- Counsel the patient for the required interventional procedures including endoscopy, peritoneal Paracentesis and tissue biopsy

 Counsel the patient to take appropriate doses of drug before breakfast and Persuade him from skipping the dose.

IRRITABLE BOWEL SYNDROME

- Define the disease according to Rome4
- Discuss the pathophysiology of disease process and select the patient at risk
 For disease
- Recite symptoms and signs in the patient suffering from the disease with its
 Both clinical forms
- Illustrate the Rome criteria for the diagnosis of irritable bowel syndrome
- Prescribeandinterprettheinvestigationsrequiredtosupportthediagnosis
- Decide a proper treatment plan in accordance with clinical presentation

INFLAMMATORY BOWEL DISEASE

- Describe basic etiology and pathophysiology linked with the disease including Both ulcerative colitis and crohn's disease.
- Identify predisposing factors of the disease
- Review signs and symptoms of the disease and relate the seto specific
 Clinical form
- Enlist and analyze the investigations needed to support the diagnosis including radiology, and laboratory tests along with interventional procedures Required for final diagnosis
- Determine a proper management plan for the patient presenting in exaggeratedphaseandschedulepharmacologicaltreatmentforthechronic disease process along with monitoring of the disease process
- Restate various clinical complications

DIABETESE MELLITIUS

- Describe pathogenesis of diabetes and its effect on metabolism of body.
- Classifydiabetesintoprimaryandsecondarytypeandthentype1andtype2
 Diabetes mellitus
- Identify patients at risk for the disease
- Various signs and symptoms associated with the disease and its complications

- Prescribe the investigations required to support the diagnosis and tabulate
 The diagnostic criteria for diabetes mellitus according to current guidelines
- Develop a proper treatment plan to manage the disease including nutritional factors along with drugs with regular monitoring of patient with random and blood sugar levels
- Evaluate the patient on every visit to detect any possible micro vascular and macro vascular complications including nephropathy, neuropathy, retinopathy and Select a appropriate treatment plan
- Counsel the patient to strictly follow the advises regarding diet, lifestyle and
 Treatment plan

HYPERTHYROIDISM

- Describe pathophysiology of and the endocrine dysfunction associated with Over functioning of thyroid gland
- Identify the clinical manifestations of disease and confirm the diagnosis by Hematological and Nuclear radiology services
- Choose appropriate treatment plan to control and eradicate the Disease process
- Counsel the patient regarding the disease morbidity and mortality

HYPOTHYROIDISM

- Discuss the etiology and pathophysiology of the under functioning of Thyroid gland
- Recognize signs and symptoms associated with disease and confirm the diagnosis with the help of hormone alassays and nuclear radiology studies
- Select an appropriate treatment plan for management of hypothyroidism
 Including drugs as well as surgical strategies to rectify the clinical effects.
- Counsel the patient regarding the endocrine disorder

PITUATRY DISORDERS

 As certain the pathophysiology of both over and under functioning of Pituitary gland

- Associatethesignsandsymptomswithspecificdisordersincludingexcessor
 Deficiency of pituitary hormones
- Confirm the diagnosis with the help of hormone eanalysis and nuclear radiology
 - Employ accurate treatment steps to eradicate the endocrine disturbance
 - Counsel the patient regarding the disease associated morbidity and mortality

ADRENAL DISORDERS

- Describetheendocrinedisordersassociatedwiththeadrenalglandsincluding diseases resulting in hypo and hyper adrenalism
- Enlist etiological factors responsible for the malfunctioning of adrenal gland
- Recognize signs and symptoms associated with both disorders
- Schedule investigational plan including both hematological and Radiological tests
- Design an appropriate treatment plan to manage the disease
- Counsel the patient regarding the disease morbidity and mortality

ACUTEKIDNEY INURY

- Review pathogenesis of acute kidney injury
- Identify all the drugs, toxins and diseases which precipitate the acute Kidney failure.
- Recite symptoms and signs which points towards risk of acute kidney inury
- Prescribe and interpret the investigations confirming diagnosis using Laboratory as well as radiology tests.
- Determine a proper management plan for the patient including
 Pharmacological and non pharmacological treatment options
 Including hemodialysis
- Counsel the patient regarding his disease and in severe cases for the need of Hemodialysis to aid the treatment process.

CHRONIC KIDNEY FAILURE

- Summarize the etiology and pathophysiology of the disease
- Specify the diseases and disorders causing chronic kidney failure

- Discussivarious clinical features with which the patient presents including
 Encephalopathy and pulmonary edema
- Prescribe the required radiology, electro physiology and laboratory tests to Confirm the diagnosis and interpret the results of the setests.
- Determine a proper management plan for the patients which are not
 A candidate for renal replacement therapy including fistula preparation and vaccinations.
- Identify the patient at need of renal replacement therapy in form
 Of hemodialysis and kidney transplantation.
- Counsel the patient and family for the need of hemodialysis and renal
 Transplantation therapy

RHEUMATOID ARTHRITIS

- Review the pathogenesis of rheumatoid arthritis in association
 With auto immunity
- Critique various sign and symptoms associated with the diseases along with Features indicating complications
- Appraise the ACR criteria for diagnosis of Rheumatoid arthritis
- Select appropriate investigations to diagnose the disease and judge its
 Results using laboratory and radiology services
- Sketch a treatment schedule to manage patients disease including
 Pharmacological as well as non pharmacological mechanisms of disease control
- Counsel the patients regarding the disease associated morbidity

SYSTEMICLUPUSERYTHROMATOTUS

- Describe basic pathophysiology of the auto immune diseases in general and
 SLE in particular.
- Enlist the other common auto immune diseases
- Review signs and symptoms relating to auto immune disease as well as
 Various clinical manifestations of SLE
- Enlist and analyze the serological test required to confirm the autoimmunity
 And other specific investigations for each auto immune disease

- Review investigations needed to support the diagnosis of SLE including Radiology and laboratory tests.
- Appraise the ACR criteria for diagnosis of SLE and other
 Auto immune disorders
- Determine a proper management plan for the patient including pharmacological and non pharmacological treatment options for both acute Exaggerations and chronic phases for SLEs and other auto immune diseases
- Counsel the patient regarding relapsing emitting of diseases and the importance of pharmacological treatment during the chronic possibly Asymptomatic phase.

DIABETESE MELLITIUS

- Describe pathogenesis of diabetes and its effect on metabolism of body.
- Classify diabetes into primary and secondary type and then type 1 and type 2
 Diabetes mellitus
- Identify patients at risk for the disease
- Various signs and symptoms associated with the disease and its complications
- Prescribe the investigations required to support the diagnosis and tabulate the diagnosticcriteriafordiabetesmellitusaccordingtocurrentguidelines
- Develop a proper treatment plan to manage the disease including Nutritional factors along with drugs with regular monitoring of patient with random and blood sugar levels
- Evaluate the patient on every visit to detect any possible micro vascular and macro vascular complications including nephropathy, neuropathy, Retinopathy and select a appropriate treatment plan
- Counsel the patient to strictly follow the advises regarding diet, lifestyle and
 Treatment plan

ADRENAL DISORDERS

Describe pathophysiology of adrenals and the endocrine dysfunction
 Associated with malfunctioning or over functioning of adrenal gland

- Classify adrenal disease into 2 major group hypo adrenalism (and Hyper adrenalism(Cushing syndrome)
- Identify the other endocrine disorders associated with the adrenal disease
 And the diseases resulting in hypo and hyper adrenalism
- Various signs and symptoms associated with both disease and Its complications
- Prescribe the investigations required to support the diagnosis

MALARIA

- Describe the pathophysiology associated with plasmodium species infection
- Classify the plasmodium species into 4sub types
- Review symptoms and signs associated with the malaria in all 4 types of
- Infection along with the severity analysis
- Enlist the matology and microscopy tests required to confirm the diagnosis
- Determine appropriate anti plasmodial drugs used for treatment in Accordance to severity of the disease

ENTERICFEVER

- Summarize the etiology and pathophysiology of the infection caused
 By salmonell a species
- Discuss the clinical presentation and complication of disease
- Prescribe and interpret the required hematology, microscopy and Culture studies to confirm the diagnosis.
- Determine a proper management plan for the patients including
 Antibacterial drug use along with symptomatic therapy.

DENGUE FEVER

- Identify the etiological virus and the pathophysiology associated with this
 Viral disease
- Discuss signs and symptoms associated with the disease and review possible complications.
- Categorize the disease as mild, moderate or severe hemorrhagic fever on the Basis of signs and symptoms
- Enlist and interpret the laboratory tests including serology and antigen
 Detection test

- Determine appropriate antiviral drugs for treatment of the disease
- Notify the case to infection control department.

ANEMIA

- Define anemia
- Classify anemia on the basis of cellularity, nutrient deficiency, bone marrow disorders including a plasia and leukemia, inflammation, genetic disorders and hemolysis.
- Review pathophysiologic processes associated with each and every specific types
- Enlist signs and symptoms with which patient of anemia present and the
 Clinical features differentiating between various types of anemia
- Arrange a proper investigational plan for diagnosing each specific types including basic biochemical tests, serological testing as well as bone marrow studies if needed.
- Discuss treatment plan of various subtypes individually
- Design a treatment plan reviewing all the rapeutic options including blood transfusions, parenteral and enteral drug treatment options as well as Options of bone marrow and cellular transplantation.
- Counsel patient and family regarding the disease

LEUKEMIA

- Describe pathogenesis of leukemia both acute and chronic disease
- Classify the types of acute and chronic myeloid leukemia
- Enlist presenting signs and symptoms and the clinical staging of acute and Chronic leukemia
- Enlistinvestigationrequiredfordiseasesincludinghematological,radiological tests.
- Demonstrate procedure of bone marrow aspiration and biopsy along with Tissue histopathology.

- Design plot of management according to clinical staging of the disease
 Including chemotherapy, radiotherapy along with surgical therapy as well as bone marrow transplantation
- Counsel family regarding the disease process and its morbidity, available
 Treatment options as well as mortality risk with and without treatment

LYMPHOMA

- Describe etiology and patho physiology of various types of lymphoma
- Demonstrate clinical features of the various types and clinical staging of
 Disease according to standard criteria
- Design a series of investigation to confirm the diagnosis utilizing hematological, radiological tests as well as histo pathological Evaluation of disease
- Formulate a treatment plan according to clinical stage including excision
 And debulking of lymphomatous tissue including chemotherapy, radiotherapy and stem cell transplantation.
- Counsel patient and family regarding the disease process and associated
 Morbidity and mortality and possible treatment strategies.

THROMBOCYTOPENIA

- Define thrombocytopenia and describe its complications
- Enlist the diseases and drugs which can result in thrombocytopenia
- Demonstrate signs and symptoms associated with the disease process
- Prescribe important biochemical tests, serological tests as well as required
 Radiological studies
- Determine treatment of thrombocytopenia including blood transfusions,
 parenteral and enteral drug treatment options as well as options of bone
 Marrow transplantation.
- Counsel patient and family regarding thrombocytopenia and its hazards.

STROKE

- State basic definition of stroke and transient ischemic attack
- Enlist predisposing factors, and discuss pathophysiology lined with Both diseases

- Appraise distinguished clinical features with which patients suffering
 From the disease present
- Assemble the list of investigations required to diagnose the disease
 Including both radiological and laboratory tests.
- Formulate pharmacological and non pharmacological measure in the Acute phase of disease
- Formulate proper management plan for the patient for stroke prophylaxis, which Should include lifestyle measures, and non pharmacological as well as pharmacological treatment options

EPILEPSY

- Defines seizure and epilepsy and discuss seizure classification into partial and Generalized types
- Discuss regarding predisposing factors, etiology as well as patho physiology of seizure
- Comprehend regarding specific clinical features occurring during a seizures
 Episode of both partial and generalized types
- Enlist the investigations required for the evaluation of seizures and epilepsy Which should include electrophysiology, radiography and laboratory testing
- Illustrate the management steps which should be carried out when a patient
 Presents in the emergency with fits.
- Discuss the indications and administration of anti epileptic drugs
- Select an antiepileptic drug for the patient in various circumstances including pregnancy and lactation along with the pharmacological monitoring of drugs levels.
- Counsel the family of the patient regarding the illness, and in house immediate measures to deduct the morbidity and trauma during the attack,
 As well as report before planning conception

CNS INFECTION

- Recalls the list of common viruses, parasites and bacteria causing CNS infections.
- Review the pathophysiology linked with these infections.
- Identify common clinical presentation of patients presenting with CNS infections as well as Distinguishing features which can help the physician to Differentiate between encephalitis, meningitis and cerebral malaria.
- Enlist and interpret laboratorial as well as radiological investigations required
 To diagnose the disease
- Design and outline proper plan of management according to their diagnosis.
 - Counsel the family of patient regarding morbidity and mortality
 Associated with disease

MYASTHENIA GRAVIS

- Define myasthenia gravis and comprehend basic pathophysiology linked
 With the disease
- State regarding clinical presentation of these patients
- Outline an investigational plan to diagnose the disease in suspected cases,
 Including electrophysiological and laboratory tests.
- Design a management plan for the treatment of patient including symptomatic, transient immune modulation and chronic immune suppressive treatment options
- Counsel the patient and family regarding the disease its complications and
 Treatment options including thymectomy

POISONING

- Classify various types of poisons used for suicidal and homicidal use
- Determine the basic pathophysiology linked with the disease
- Identify clinical features of disease
- Draw a plan for diagnosis including hematological and urine tests
- Employ treatment steps including symptomatic and antidose administration
- Counsel the patient and family accordingly
- Notify to security services of the country
- Schedulepsychoanalysisofpatientandutilizethencounselinganddrugfor treatment

Clinical Clerkship Outcomes

Aims:

To acquire core curriculum knowledge and develop clinical and communication skills through supported and supervised patient contact.

Essential Skills to be learnt:

- 1) Taking a proper history from patient & perform clinical examination.
- Deciding management plan & discussing any problem in management with consultant in a proper way
- 3) Case presentation skills.
- 4) Deal with medical emergencies.
- 5) ECG interpretation.
- 6) Reporting chest radiograph.

Desired outcomes:

- 1. Be able to take and record a patient's medical history and recognize the role of taking a focused history.
- 2. Be able to present a coherent and comprehensive medical history along with a precise summary.
- 3. Be able to take and record a patient's medical history and recognize the role of taking a focused history.
- 4. Be able to present a coherent and comprehensive medical history along with a precise summary.
- 5. Attain competence in the basics of physical examination and key systems examinations, namely cardiovascular, respiratory,

- abdominal, neurological and musculo skeletal examinations.
- 6. Learn to apply theoretical knowledge to clinical practice.
- 7. Demonstrate effective communication skills with patients and with professionals
- 8. With in the multidisciplinary team.
- 9. Recognize the importance of a holistic approach, with particular reference to disease management and palliative care
- 10. Achieving ad demonstrating a positive and appreciable change in attitude.
- 11.Be able to debate ethical issues with patients, attendants and the multidisciplinary team.
- 12. Recognize the importance of a holistic approach, with particular reference to disease management and palliative care.
- 13. Achieving ad demonstrating a positive and appreciable change in attitude.
- 14.Be able to debate ethical issues with patients, attendants and the multidisciplinary team

Ward based objectives

At the end of the 2-hour ward session, the student should be able to:

General Physical Examination

- Perform the examination in a methodical manner
- Detect the abnormal findings
- Interpret the clinical finding
- Comment on the logical outcome

Cardiovascular Examination

- Locate and comment on the strength of the following pulses: redial, brachial, carotid, popliteal, dorsalis pedis, posterior tibial, femoral pulses.
- Take blood pressure manually and using automated methods
- Recognize and assess the JVP
- Conduct full cardiac examination including aortic and mitral maneuvers

Respiratory System

- Record a pertinent history from the given patient so as to be able to reach a working diagnosis
- Demonstrate the logics, sequential steps of chest examination on a given patient. Comprised of :
- Inspection- See- movement and symmetry at foot end of the bed, shape elliptical, barrel, pigeon, use of accessory muscles, in drawingof supra and infra clavicular fossae, and sternal notch, tracheal tug, pulsation including apex beat, mass, venous engorgement, scars etc
- Palpation Feel, trachea, apex beat, chest expansion, tactile vocal fermitus, tenderness, mass, etc
- Percussion- Tap, both side of the chest equally resonant, hyper resonant, dull, stony dull, upper border of liver, area of cardiac dullness etc
- Auscultation-Listen, breath sounds, normal vesicular, vesicular with prolonged expiratory phase or bronchial. Added sounds, cackles, wheeze, pleural rub, vocal resonance etc.

Gastroenterology

- Record a related history from the patient so as to be able to formulate a working diagnosis.
 - Illustrate the logical, sequential steps of abdominal examination on a

Given patient has includes:

Inspection-See, movement, shape flat, distended, scaphoid, any pulsation, mass,

Venous engorgement peristaltic activity, hernia orifices etc

Palpation- Feel, tenderness, mass, visceromegaly etc

Percussion-Tap, shifting dullness, fluid thrill etc

Auscultation- Listen, gut sound, bruits etc

DRE- Digital rectal examination

 Correlate the information in history taking with the findings of the physical examination to formulate a working diagnosis.

Central nervous system:

- Record a complete history from the given patients as to draw a likely working diagnosis.
- Employ the logical and sequential steps of higher mental functions, cranial nerves, upper and lower limb examination both motor and sensory, signs of cerebella dysfunction, extra pyramidal system, signs of Meningial irritation
- Ophthalmoscopy

Musculo- Skeletal System

Inspect and palpate movement of joints

Tutorial based objectives

Introduction to ECG leads & ECG recording

- Identify three planes of electrocardiography: Standard limb leads, augmented leads, precordial leads
- Describecomponentsofnormal12-lead ECG

Normal wave pattern of ECG

- Describe electrical pathway of heart
- Describecomponentsofnormal12-leadECG

Abnormalities of P-wave & PR-interval

- Describesystemicapproachtointerpretationof12-leadECG
- Determine presence of conduction abnormalities(Heart block)
- Recognize chamber Recognize chamber enlargement

Abnormalities of QRS complex, ST segment T-waves

- Relate coronary artery anatomy to myocardial perfusion
- Recognize common ECG patterns associated with various locations
 Of injury/infarction
- Determine presence of conduction abnormalities(Heart block &Bundle branch block)
- Recognize chamber enlargement

Discuss tachyarrhythmia

 Determine probability of Supra ventricular (SVT) Vs Ventricular tachycardia(VT)

Practice session

Learner should be able to evaluate and interpret basic 12 lead ECG.

Practice session

• Learner should be able to evaluate and interpret basic 12lead ECG.

Assessment

Learnershouldbeabletoevaluateandinterpretbasic12leadECG.

CHESTX-RAYINTERPRETATIONCOURSE

Learning Outcome:

• As a result of this course learner should be able to evaluate and interpret CXR in different views.

Learning Objectives:

CHESTX-RAY INTERPRETATION COURSE FINAL YEAR MBBS

Upon conclusion of this course ,students should be able to:

- Recognize normal anatomy of chest radio graphs in different views.
- Identify different CXR views & describe when they are helpful as well as limitations of each
- List different pathologies that can produce opacity on CXR
- Recognize pleural effusion & Pneumothorax on CXR
- Recognize mediastinal & hilar abnormalities
- Recognize cardiac abnormalities on CXR

Teaching Plan:

Small group discussion is arranged of one hour duration, every Friday from

10 to 11 PM. Total eight session are arranged. In 1st Five sessions students are taught Normal anatomy of CXR & common abnormalities Last three sessions are practice sessions in which different CXR from ward record/online resources are displayed & discussed. Details of every session is mentioned below:

Normal CXR

- Recognize normal anatomy of chest radiographs in different views.
- Identify different CXR views & describe when they are helpful as well as limitations of each

Normal cxr

- Recognize normal anatomy of chest radiographs in different views.
- Identify different CXR views & describe when they are helpful as well as limitations of each

Opacities in lung fields+ Pleural effusion+ Pneumothorax

- List different pathologies that can produce opacity on CXR
- Recognize pleural effusion & Pneumothorax on CXR

Mediastinum & Hilar abnormalities on CXR

Recognize mediastinal & hilar abnormalities

Heart on CXR

Recognize cardiac abnormalities on CXR

Practice session

• Learner should be able to evaluate and interpret CXR indifferent views.

Practice session

• Learner should be able to evaluate and interpret CXR in different views

Assessment

• Learner should be able to evaluate and interpret CXR in different views.

Assessment:

Following skills will be tested towards the end of posting in OSCE.

- 1) History Taking 10%
- 2)Physical Examination 25%
- 3)Patient counseling 5%
- 4)ECG interpretation 10%
- 5)Chest Radiographs 10%
- 6)Medical procedures 5%
- 7) Medical emergencies 10%
- 8) Lab data interpretation 25%