STUDY GUIDE	
PROGRAM	MBBS
COURSE TITLE	Internal Medicine
ACADEMIC YEAR	5 <sup>th</sup> YEAR- 2024
INTRODUCTION	Internal Medicine, also known as General Medicine, is a medical specialty for medical doctors focused on the prevention, diagnosis,
	and treatment of internal diseases in adults. Medical practitioners of
	internal medicine are referred to as Internists, or Physicians. Internists
	provide care to both hospitalized (inpatient)
	and ambulatory (outpatient) patients and often contribute
	significantly to teaching and research. Internists are qualified
	physicians who have undergone postgraduate training in internal
	medicine.
	Internists primarily work in hospitals, as their patients are frequently
	seriously ill or require extensive medical tests. They often have sub-
	specialty interests in diseases affecting particular organs or organ systems.
	This course helps the students learn more about making diagnoses on the basis of information gathered about the patient and from the
	patient. These patients may be in the ambulatory care setting or
	hospitalized or in the emergency department. Students will be
	provided with knowledge through lectures and practice in key
	procedures in skills labs and in the work settings.
	The learning of conditions of adults starts in 3 <sup>rd</sup> year MBBS and
	continues till the end of final year (5 <sup>th</sup> year) MBBS. This study guide is
	for topics that will be dealt with in the final year.
RATIONALE	For doctors to provide effective health care, it is imperative that

	learners be given adequate opportunities in managing adult
	patients with common conditions so that they are productive
	physicians. No MBBS or MD program can be complete without
	satisfactorily gaining competence in the management of such
	conditions.
OUTCOMES	By the end of the final year MBBS, students will be able to:
	Demonstrate competence in basic clinical skills which they
	can utilize as doctors to improve the health care system
	quality
	<ul> <li>Demonstrate clinical reasoning in decision making</li> </ul>
	<ul> <li>Justify management plans for common conditions in</li> </ul>
	Emergency, in- and out-patient situations
	<ul> <li>Appropriately and promptly refer patients to specialists</li> </ul>
	Consistently demonstrate professional & ethical behavior
	along with communication skills with all stakeholders
DISCIPLINES	1. Cardiology
INVOLVED	2. Endocrinology (& Genetic Disorders)
	3. Gastroenterology
	4. Hematology
	5. Infectious Diseases
	6. Internal Medicine
	7. Nephrology
	8. Neurology
	9. Oncology
	10.Pulmonology
	11.Rheumatology
	12.Toxicology & Environmental Medicine
COURSE	By the end of the course of Internal Medicine (and Allied Disciplines)
OBJECTIVES	and for each of the conditions listed in this study guide, final year

	MBBS students will be able to:
	<ul> <li>discuss the etiology, risk factors, clinical presentations and</li> </ul>
	relevant investigations for each
	<ul> <li>correlate the conditions' pathophysiology with signs and</li> </ul>
	symptoms
	<ul> <li>justify differential diagnoses and diagnoses on the basis of</li> </ul>
	history, examination findings and investigation reports
	<ul> <li>discuss outlines of treatment plans for each</li> </ul>
	explain plans for prevention of conditions where appropriate
	<ul> <li>enumerate complications and their principles of</li> </ul>
	management
CARDIOLOGY	1. Arrhythmias & Heart blocks
	2. Cardiomyopathies & Myocarditis
	3. Congenital heart diseases (Ventricular and Atrial Septal
	Defects, Tetralogy of Fallot, co-arctation of aorta, Patent
	Foramen Ovale, Patent Ductus Arteriosus)
	4. Congestive cardiac failure & acute pulmonary edema
	5. ECG Interpretation
	6. Ischemic Heart Disease (Angina /NON -STEMI)
	7. Pericardial effusion/ Pericarditis/Constrictive Pericarditis
	8. Peripheral vascular disease/ acute limb ischemia
	9. Rheumatic Fever/ Infective Endocarditis
	10.ST-Elevation MI; management and complications
	11.Systemic hypertension & hypertensive emergencies
	12. Valvular heart Disease
ENDOCRINOLOGY	1. Adrenal dysfunctions: Congenital Adrenal Hyperplasia,
& GENETIC	Pheochromocytoma
	2. Carcinoid tumors of Endocrine system: Insulinoma,

DISORDERS	Gluconoma, MEN syndrome
	3. Diabetes Mellitus
	4. Down's syndrome
	5. Hyper-& Hypoparathyroidism
	6. Hyperlipidemia
	7. Obesity, Metabolic syndrome
	8. Pituitary dysfunctions: Pan-hypo-pituitarism, Sheehan
	syndrome, Kallman's syndrome, Acromegaly, Diabetes
	Insipidus, SIADH
	9. Thyroid carcinoma
	10.Turner & Klinefelter syndromes
ENVIROMENTAL	1. Decompression sickness & near drowning
DISEASES	2. Electric shock
	3. Heat Stroke and heat exhaustion
	4. Hypothermia & Frost bite
	5. Snake-bite management
GASTRO-	1. Abdominal Tuberculosis
ENTEROLOGY	2. Achalasia, Dysphagia, GERD, Dyspepsia
AND	3. Acute & Chronic Diarrhea
HEPATOBILIARY	4. Acute hepatitis & Fulminant hepatic failure
SYSTEM	5. Acute & Chronic pancreatitis
	6. Alcoholic liver disease & non-alcoholic fatty liver disease
	7. Autoimmune hepatitis (Alpha-1 Anti-trypsin Deficiency, Drug
	Induced Hepatitis)
	8. Chronic Hepatitis B & C
	9. Cirrhosis and its complications
	10. Gastritis, Peptic ulcer & H. Pylori infection
	11.Inflammatory bowel diseases

	12.Irritable bowel syndrome
	13. Liver abscess
	14. Malabsorption syndromes; Celiac diseases, Abdominal TB,
	Intestinal Lymphoma
	15. Primary Biliary cirrhosis/ PSC
	16. Upper & Lower GI bleeding
	17. Wilson's disease & Hemochromatosis
HEMATOLOGY	1. Anemia: Classification and Types: Anemia of Chronic
	diseases, Aplastic anemia & Bone marrow transplant,
	Hemolytic Anemia (Thalassemia, sickle anemia, hereditary
	spherocytosis, autoimmune hemolytic anemia, G6PD
	deficiency, Paroxysmal nocturnal hemoglobinuria), Nutritional
	Deficiency (including Iron deficiency, Folic Acid and B12
	deficiency)
	2. Bleeding disorders (Hemophilia's, Von-Willebrand Disease,
	DIC), Thrombocytopenia: ITP, TTP& HUS
	3. Blood products, Blood transfusion and transfusion reactions
	4. Leukemias: Acute & Chronic Leukemia
	5. Lymphomas (Hodgkins and Non-Hodgkins)
	6. Multiple Myeloma & Cryoglobinemia
	7. Myeloproliferative disorders & Myelofibrosis
INFECTIOUS	1. Brucellosis
DISEASES	2. Enteric Fever
	3. Fever of unknown origin
	4. HIV diagnosis and management
	5. Parasitic infection: Malaria, Leishmaniasis, Toxoplasmosis,
	Amoebiasis, Giardiasis
	6. Viral hemorrhagic fever, Dengue, Crimean-Congo
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	hemorrhagic Fever, Chikungunya
	7. Viral infection: Herpes, Chicken Pox, EBV, CMV, Measles, Fever
	with rash, Influenza, COVID
NEUROLOGY	1. Acute & Chronic CNS infections (review)
	2. Coma
	3. Diseases of Extra -pyramidal conditions: Tremors, Huntington's
	disease, Wilson's disease
	4. MND, Myasthenia Gravis
	5. Myopathies and Muscle Dystrophies
	6. Neuropathies, Guillian-Barre Syndrome
	7. Paraparesis: Transverse Myelitis, Pott's disease, Disc diseases,
	Periodic paralysis
	8. Primary and secondary Headaches & Trigeminal Neuralgia
PULMONOLOGY	1. Asthma
	2. Bronchiectasis & Cystic fibrosis
	3. Bronchogenic Carcinoma
	4. Chronic Obstructive Pulmonary Diseases
	5. Diffuse Parenchymal lung disease.
	6. Hyperventilation /hypoventilation syndrome & OSA
	7. Pneumonia
	8. Pneumothorax, Pleural Effusion
	9. Pulmonary Embolism, Pulmonary Hypertension
	10. Pulmonary Tuberculosis
	11.Respiratory failure & Acute Respiratory Distress Syndrome
RADIOLOGY	1. Principles of Radiation Oncology:
	Mechanism of action
	Distinction between Curative and Palliative approach
	Modalities of treatment (External Beam, Brachytherapy,

	3DCRT, IMRT, SRS)
	<ul> <li>Toxicities</li> </ul>
RHEUMATOLOGY	1. Degenerative Arthritis
	2. Fibromyalgia, Anti-phospholipid syndrome
	<ol> <li>Gonococcal arthritis &amp; Septic arthritis</li> </ol>
	<ol> <li>Crystal Induced Arthropathy</li> </ol>
	5. Polymyositis, Dermatomyositis and Mixed Connective Tissue
	Diseases
	6. Rheumatoid arthritis
	7. Sjogren's syndrome
	8. Seronegative Spondyloarthropathies
	9. Systemic Lupus Erythematosis & Antiphospholipid syndrome,
	Systemic sclerosis & Raynaud's phenomena
	10.Vasculitis
TOXICOLOGY	1. Acute poisoning (Organophosphate, Opiates, Paracetamol)
	2. Benzodiazepine & Barbiturates poisoning
	3. Corrosive & Kerosene poisoning
	4. Ethanol & Methanol poisoning
	5. Snake bite poisoning
NEPHROLOGY	1. Acid base disorders & Renal Tubular Acidosis
	<ol> <li>Acute kidney injury</li> </ol>
	<ol> <li>Chronic kidney disease and its complications</li> <li>Cyrtia diseases of kidney</li> </ol>
	4. Cystic diseases of kidney
	5. Electrolyte imbalance: Fluid balance, Na, K, Ca,Po4
	6. Hemodialysis; types and complications
	7. Interpretations of urine D/R
	8. Interstitial nephritis, Lupus nephritis, Tubulo-interstitial nephritis
	9. Nephritic syndrome; Glomerulonephritis and its types

11.Pregnancy related kidney diseases         12.Renal Artery Stenosis         13.Renal replacement therapy and its complications         14.Renal Vein Thrombosis         MEDICAL ONCOLOGY         1Causes of cancer formation         • Definition Cancer and causes         • History taking and Physical Examination         • Staging         • Patient Communication and discussing prognosis         • MDT approach         2. Principles of Medical Oncology         • Distinction between curative and palliative approach         • Modalities of treatment (Cytotoxic Chemotherapy, Endocrine therapy, Biological agents and Immunotherapy         • Toxicities         3. Oncological Emergencies         • Neutropenic sepsis         • Syci obstruction         • Hypercalcemia         • Screening of cancers for early detection         • Principles of non-surgical treatment of cancer         • Principles of chemotherapy		10. Nephrotic syndrome
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7 Principles of radiotherapy		6. Principles of chemotherapy
		7. Principles of radiotherapy

	9. Palliative care
	Pain management
	<ul> <li>Anti-emesis</li> </ul>
	<ul> <li>Counseling (Patient &amp; Families)</li> </ul>
	End-of-Life management
CLINICAL SKILLS	Administering oxygen & nebulizers
(performing under	Assess comatose patients
direct supervision-	Blood sampling or venipuncture
In skills lab and/	Carrying out a urine multi dipstick test
or during ward	CPR on mannequin
rotations)	Giving intramuscular and intravenous injections
	<ul> <li>Lumbar puncture (skills lab and then in wards)</li> </ul>
	Measuring capillary blood glucose
	<ul> <li>Moving and handling, including patients who are frail</li> </ul>
	<ul> <li>Passing N/G tube</li> </ul>
	Performing General and Systemic Physical Examinations
	Performing Male and female Catheterization
	<ul> <li>Setting up and maintaining I/V line</li> </ul>
	Wearing protective equipment
CLINICAL SKILLS	CPR on real patients
(Observation,	<ul> <li>Dialysis</li> </ul>
where possible)	Endoscopies & Colonoscopies
	Insertion of Central venous line
	<ul> <li>Management of patients in Emergency Room/ Casualty</li> </ul>
	Ventilation
PROFESSIONAL	Maintain personal hygiene at all times, especially after being
BEHAVIOR	in contact with patients
	Effectively counsel patients regarding options for relevant

	therapeutic procedures
	<ul> <li>Demonstrate respect, empathy and care while dealing with</li> </ul>
	patients
	<ul> <li>Take consent appropriately before all procedures and</li> </ul>
	processes
	Communicate with professionally and with respect with
	patients, their attendants, health care team members, senior
	physicians and peers
	<ul> <li>Demonstrate punctuality and regularity in all academic</li> </ul>
	sessions
	• Demonstrate care, empathy and principles of ethical and
	prefessional practice in all the therapeutic procedures while
	taking care of patient safety issues
	<ul> <li>Safeguard themselves from potential harm by adhering to</li> </ul>
	prescribed protocols
	Consistently demonstrate care for the betterment of the
	patients
	Work effectively as a productive member of the health care
	team
	<ul> <li>Perform duties honestly and to the best of their abilities</li> </ul>
	Demonstrate proactive behavior in fulfilling their responsibilities
	Follow institutional policies
INTERNAL	<ul> <li>Internal assessment will be according to JSMU policy. The</li> </ul>
ASSESSMENT	details of internal assessment will be determined by the
	respective institutions.
	• Internal assessment carries 20% weightage in the final, end-of-
	year examination
ANNUAL	The Theory exam comprises of two sections, Papers I & II. There will
EXAMINATION	be OSCE stations (observed and unobserved) related to papers I &

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All clinical Topics and skills from Internal Medicine, taught in previous
years, will be assessed in Final year MBBS professional examination as
well.
Students are strongly advised to thoroughly read the policy on Academic
Progression in Undergraduate Programs present on JSMU website.