

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/ N
<b>Topic: Heart Failure</b>		<b>Number of competencies: (30)</b>		<b>Number of proce</b>
IM1.1	Describe and discuss the epidemiology, pathogenesis clinical evolution and course of common causes of heart disease including: rheumatic/ valvular, ischemic, hypertrophic inflammatory	K	KH	Y
IM1.2	Describe and discuss the genetic basis of some forms of heart failure	K	KH	N
IM1.3	Describe and discuss the aetiology microbiology pathogenies and clinical evolution of rheumatic fever, criteria, degree of rheumatic activity and rheumatic valvular heart disease and its complications including infective endocarditis	K	KH	Y
IM1.4	Stage heart failure	K	KH	Y
IM1.5	Describe ,discuss and differentiate the processes involved in R Vs L heart failure, systolic vs diastolic failure	K	KH	Y
IM1.6	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations	K	KH	Y
IM1.7	Enumerate, describe and discuss the factors that exacerbate heart failure including ischemia, arrhythmias, anemia, thyrotoxicosis, dietary factors drugs etc.	K	KH	Y
IM1.8	Describe and discuss the pathogenesis and development of common arrhythmias involved in heart failure particularly atrial fibrillation	K	KH	Y
IM1.9	Describe and discuss the clinical presentation and features, diagnosis, recognition and management of acute rheumatic fever	K	KH	Y
IM1.10	Elicit document and present an appropriate history that will establish the diagnosis, cause and severity of heart failure including: presenting complaints, precipitating and exacerbating factors, risk factors exercise tolerance, changes in sleep patterns, features suggestive of infective endocarditis	S	SH	Y
IM1.11	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and estimate its severity including: measurement of pulse, blood pressure and respiratory rate, jugular venous forms and pulses, peripheral pulses, <del>conjunctiva and fundus_lung cardiac examination including</del>	S	SH	Y
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure	S	SH	Y
IM1.13	Measure the blood pressure accurately, recognise and discuss alterations in blood pressure in valvular heart disease and other causes of heart failure and cardiac tamponade	S	SH	Y
IM1.14	Demonstrate and measure jugular venous distension	S	SH	Y
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations	S	SH	Y

IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	K	KH	Y
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures	K	SH	Y
IM1.18	Perform and interpret a 12 lead ECG	S	P	Y
IM1.19	Enumerate the indications for and describe the findings of heart failure with the following conditions including: 2D echocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram	S	KH	N
IM1.20	Determine the severity of valvular heart disease based on the clinical and laboratory and imaging features and determine the level of intervention required including surgery	C	SH	Y
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy	K	KH/SH	Y
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture	S	SH	Y
IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure in	S/C	SH	Y
IM1.24	Describe and discuss the pharmacology of drugs including indications, contraindications in the management of heart failure including diuretics, ACE inhibitors, Beta blockers, aldosterone antagonists and cardiac glycosides	K	KH	Y
IM1.25	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation	K	KH	Y
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology	S	SH	Y
IM1.27	Describe and discuss the role of penicillin prophylaxis in the prevention of rheumatic heart disease	K	KH	Y
IM1.28	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease	K	KH	Y
IM1.29	Elicit document and present an appropriate history, demonstrate correctly general examination, relevant clinical findings and formulate document and present a management plan for an adult patient presenting with a common form of congenital heart disease	K	KH	Y
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient	S	SH	Y
<b>Topic: Acute Myocardial Infarction/ IHD</b>				
		<b>Number of competencies: (24)</b>		<b>Number of proced</b>
IM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease	K	KH	Y

IM2.2	Discuss the aetiology of risk factors both modifiable and non modifiable of atherosclerosis	K	KH	Y
IM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis	K	KH	Y
IM2.4	Discuss and describe the pathogenesis natural history, evolution and complications of atherosclerosis and IHD	K	KH	Y
IM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes	K	KH	Y
IM2.6	Elicit document and present an appropriate history that includes onset evolution, presentation risk factors, family history, comorbid conditions, complications, medication, history of atherosclerosis, IHD and coronary syndromes	S	SH	Y
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation	S	SH	Y
IM2.8	Generate document and present a differential diagnosis based on the clinical presentation and prioritise based on "cannot miss", most likely diagnosis and severity	S	SH	Y
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation	S	SH	Y
IM2.10	Order, perform and interpret an ECG	S	P	Y
IM2.11	Order and interpret a Chest X-ray and markers of acute myocardial infarction	S	SH	Y
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context	S	SH	Y
IM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram	K	KH	Y
IM2.14	Discuss and describe the indications for admission to a coronary care unit and supportive	K	KH	Y
IM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation	K	KH	Y
IM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG	K	KH	Y
IM2.17	Discuss and describe the indications and methods of cardiac rehabilitation	K	KH	Y
IM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of dyslipidemia	K	KH	Y
IM2.19	Discuss and describe the pathogenesis, recognition and management of complications of acute coronary syndromes including arrhythmias, shock, LV dysfunction, papillary muscle rupture and pericarditis	K	KH	Y
IM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes	K	KH	Y
IM2.21	Observe and participate in a controlled environment an ACLS program	S	KH	N
IM2.22	Perform and demonstrate in a mannequin BLS	S	P	Y

IM2.23	Describe and discuss the indications for nitrates, anti platelet agents, gpIIb IIIa inhibitors, beta blockers, ACE inhibitors etc in the management of coronary syndromes	K	KH	Y
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes	C/A	SH	Y
<b>Topic: Pneumonia</b>				
		<b>Number of competencies: (19)</b>		<b>Number of procedur</b>
IM3.1	Define, discuss, describe and distinguish community acquired pneumonia, nosocomial pneumonia and aspiration pneumonia	K	K	Y
IM3.2	Discuss and describe the aetiologies of various kinds of pneumonia and their microbiology depending on the setting and immune status of the host	K	K	Y
IM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia	K	K	Y
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk	S	SH	Y
IM3.5	Perform, document and demonstrate a physical examination including general examination and appropriate examination of the lungs that establishes the diagnosis, complications and severity of disease	S	SH	Y
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation	S	SH	Y
IM3.7	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum gram stain, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing and ABG	S	SH	Y
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination	S	SH	Y
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration	S	SH	Y
IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture	S	SH	Y
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing	S	SH	Y
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum	S	SH	Y
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empaling antimicrobial based on the pharmacology and antimicrobial spectrum.	S	SH	Y
IM3.14	Perform and interpret a sputum gram stain and AFB	S	P	Y
IM3.15	Describe and enumerate the indications for hospitalisation in patients with pneumonia	K	K	Y
IM3.16	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia	K	K	Y
IM3.17	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation	K	K	Y
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of pneumonia	C/A	SH	Y
IM3.19	Discuss, describe, enumerate the indications and communicate to patients on pneumococcal and influenza vaccines	S/C	K	Y
<b>Topic: Fever and febrile syndromes</b>				
		<b>Number of competencies: (26)</b>		<b>Number of procedur</b>

IM4.1	Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response	K	K	Y
IM4.2	Describe and discuss the influence of special populations on the febrile response including: the elderly, immune suppression, malignancy and neutropenia, HIV and travel	K	K	Y
IM4.3	Discuss and describe the common causes, pathophysiology and manifestations of fever in	K	K	Y
IM4.4	Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever	K	KH	Y
IM4.5	Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies	K	KH	Y
IM4.6	Discuss and describe the pathophysiology and manifestations of malaria	K	KH	Y
IM4.7	Discuss and describe the pathophysiology and manifestations of the sepsis syndrome	K	K	Y
IM4.8	Discuss and describe the pathophysiology, aetiology and clinical manifestations of fever of unknown origin (FUO) including in a normal host, neutropenic host, nosocomial host and a host with HIV disease	K	K	Y
IM4.9	Elicit document and present a medical history that helps delineate the aetiology of fever that includes the evolution and pattern of fever, associated symptoms, immune status, comorbidities, risk factors, exposure through occupation, travel and environment and medication use	S	SH	Y
IM4.10	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	S	SH	Y
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	K	SH	Y

IM4.12	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC	K	SH	Y
IM4.13	Perform and interpret a sputum gram stain	S	SH	Y
IM4.14	Perform and interpret a sputum AFB	S	SH	Y
IM4.15	Perform and interpret a malarial smear	S	SH	Y
IM4.16	Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy	K	KH	N
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment	S	SH	N
IM4.18	Enumerate the indications for use of imaging in the diagnosis of febrile syndromes	K	KH	N
IM4.19	Assist in the collection of blood and wound cultures	S	SH	Y
IM4.20	Interpret a PPD (Mantoux)	S	SH	Y
IM4.21	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner	K	KH	Y
IM4.22	Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial drugs and basis of resistance	K	KH	Y
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs	S	SH	Y

IM4.24	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis	C	SH	Y
IM4.25	Communicate to the patient and family the diagnosis and treatment	C	SH	Y
IM4.26	Counsel the patient on malarial prevention	C	SH	Y

**Topic: Liver disease** **Number of competencies: (18)** **Number of procedures: (10)**

IM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia	K	K	Y
IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury	K	K	Y
IM5.3	Describe and discuss the pathologic changes in various forms of liver disease	K	K	Y
IM5.4	Describe and discuss the epidemiology, microbiology, immunology and clinical evolution of infective (viral) hepatitis	K	K	Y
IM5.5	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease	K	K	Y
IM5.6	Describe and discuss the pathophysiology, clinical evolution and complications of cirrhosis and portal hypertension including ascites, spontaneous bacterial peritonitis, hepatorenal syndrome and hepatic encephalopathy	K	K	Y
IM5.7	Enumerate and describe the causes and pathophysiology of drug induced liver injury	K	K	Y
IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications cholelithiasis	K	K	Y
IM5.9	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes clinical presentation, risk factors, drug use, sexual history, vaccination history and family history	S	SH	Y
IM5.10	Perform a systematic examination that establishes the diagnosis and severity that includes nutritional status, mental status, jaundice, abdominal distension ascites, features of portosystemic hypertension and hepatic encephalopathy	S	SH	Y

IM5.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	K	KH	Y
IM5.12	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases.	S	KH	Y
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease	K	K	Y
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology	S	SH	Y
IM5.15	Assist in the performance and interpret the findings of an ascitic fluid analysis	S	KH	Y
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy	K	KH	Y
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis	K/C	SH	Y
IM5.18	Enumerate the indications for hepatic transplantation	K	K	Y
<b>Topic: HIV</b>				
		<b>Number of competencies: (23)</b>		<b>Number of proce</b>
IM6.1	Describe and discuss the symptoms and signs of acute HIV seroconversion	K	KH	Y
IM6.2	Define and classify HIV AIDS based on the CDC criteria	K	KH	Y
IM6.3	Describe and discuss the relationship between CDC count and the risk of opportunistic infections	K	KH	Y
IM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections	K	KH	Y
IM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies	K	KH	Y
IM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions	K	KH	Y
IM6.7	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes risk factors for HIV, mode of infection, other sexually transmitted diseases, risks for opportunistic infections and nutritional status	S	SH	Y
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	S	SH	Y
IM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC	K	KH	Y
IM6.10	Choose and interpret appropriate diagnostic tests to diagnose opportunistic infections including CBC, sputum examination and cultures, blood cultures, stool analysis, CSF analysis and Chest radiographs	S	KH	Y



IM6.11	Enumerate the indications and describe the findings for CT of the chest and brain and MRI	K	K	N
IM6.12	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph	K	KH	Y
IM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea	K	K	Y
IM6.14	Perform and interpret AFB sputum	S	P	Y
IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture	S	SH	Y
IM6.16	Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions	K	K	Y
IM6.17	Discuss and describe the principles and regimens used in post exposure prophylaxis	K	K	Y
IM6.18	Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections	K/C	K	Y
IM6.19	Counsel patients on prevention of HIV transmission	C	SH	Y
IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	C	SH	Y
IM6.21	Communicate with patients on the importance of medication adherence	C	SH	Y
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV	K/A	SH	Y
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles	A	SH	Y

**Topic: Rheumatologic problems**

**Number of competencies: (27)**

**Number of procedure**

IM7.1	Describe the pathophysiology of autoimmune disease	K	KH	Y
IM7.2	Describe the genetic basis of autoimmune disease	K	KH	N
IM7.3	Classify cause of joint pain based on the pathophysiology	K	KH	Y
IM7.4	Develop a systematic clinical approach to joint pain based on the pathophysiology	K	KH	Y
IM7.5	Describe and discriminate acute, subacute and chronic causes of joint pain	K	KH	Y
IM7.6	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain	K	KH	Y
IM7.7	Discriminate, describe and discuss distinguishing articular from periarticular complaints	K	KH	Y

IM7.8	Determine the potential causes of joint pain based on the presenting features of joint involvement	K	KH	Y
IM7.9	Describe the common signs and symptoms of articular and periarticular diseases	K	KH	Y
IM7.10	Describe the systemic manifestations of rheumatologic disease	K	KH	Y
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease	S	SH	Y
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the dia	S	SH	Y
IM7.13	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	K/S	KH	Y
IM7.14	Describe the appropriate diagnostic work up based on the presumed aetiology	K	KH	Y
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti-CCP, RA, ANA, DNA and other tests of autoimmunity	K	SH	Y
IM7.16	Enumerate the indications for arthrocentesis	K	K	Y
IM7.17	Enumerate the indications and interpret plain radiographs of joints	K	SH	Y
IM7.18	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	C	SH	Y
IM7.19	Develop an appropriate treatment plan for patients with rheumatologic diseases	K	KH	Y
IM7.20	Select, prescribe and communicate appropriate medications for relief of joint pain	K/C	SH	Y
IM7.21	Select, prescribe and communicate preventive therapy for crystalline arthropathies	K/C	SH	Y
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions	K/C	SH	Y
IM7.23	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases	K	KH	Y
IM7.24	Communicate and incorporate patient preferences in the choice of therapy	C/A	SH	Y
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with r	C	SH	Y

IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family	A	SH	Y
IM7.27	Determine the need for specialist consultation	K	K	Y
<b>Topic: Hypertension</b>				
		<b>Number of competencies: (20)</b>		<b>Number of procedures</b>
IM8.1	Describe and discuss the epidemiology, aetiology and the prevalence of primary and secondary hypertension	K	KH	Y
IM8.2	Describe and discuss the pathophysiology of hypertension	K	KH	Y
IM8.3	Describe and discuss the genetic basis of hypertension	K	KH	N
IM8.4	Define and classify hypertension	K	KH	Y
IM8.5	Describe and discuss the differences between primary and secondary hypertension	K	KH	Y
IM8.6	Define, describe and discuss and recognise hypertensive urgency and emergency	K	KH	Y
IM8.7	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension	K	KH	Y
IM8.8	Describe, discuss and identify target organ damage due to hypertension	K	KH	Y
IM8.9	Elicit document and present a medical history that includes: duration and levels, symptoms, comorbidities, lifestyle, risk factors, family history, psychosocial and environmental factors, dietary assessment, previous and concomitant therapy	K	SH	Y
IM8.10	Perform a systematic examination that includes : an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart	S	SH	Y
IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	S	SH	Y
IM8.12	Describe the appropriate diagnostic work up based on the presumed aetiology	K	KH	Y
IM8.13	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG	K	KH	Y
IM8.14	Develop an appropriate treatment plan for essential hypertension	K	KH	Y
IM8.15	Recognise, prioritise and manage hypertensive emergencies	S	SH	Y
IM8.16	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake	C	SH	Y
IM8.17	Perform and interpret a 12 lead ECG	S	P	Y
IM8.18	Incorporate patient preferences in the management of HTN	A/C	SH	Y

IM8.19	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family	A	SH	Y
IM8.20	Determine the need for specialist consultation	K	KH	Y
<b>Topic: Anemia</b>				
		<b>Number of competencies: (21)</b>		<b>Number of procedures</b>
IM9.1	Define, describe and classify anemia based on red blood cell size and reticulocyte count	K	KH	Y
IM9.2	Describe and discuss the morphological characteristics, aetiology and prevalence of each of the causes of anemia	K	KH	Y
IM9.3	Elicit document and present a medical history that includes symptoms, risk factors including GI bleeding, prior history, medications, menstrual history, and family history	S	SH	Y
IM9.4	Perform a systematic examination that includes : general examination for pallor, oral examination, DOAP session of hyper dynamic circulation, lymph node and splenic examination	S	SH	Y
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	S	SH	Y
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology	S	SH	Y
IM9.7	Describe and discuss the meaning and utility of various components of the hemogram	K	KH	Y
IM9.8	Describe and discuss the various tests for iron deficiency	K	KH	Y
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate	S	SH	Y
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood	S	SH	P
IM9.11	Describe the indications and interpret the results of a bone marrow aspirations and biopsy	K	KH	Y
IM9.12	Describe, develop a diagnostic plan to determine the aetiology of anemia	K	KH	Y
IM9.13	Prescribe replacement therapy with iron, B12, folate	S	SH	Y
IM9.14	Describe the national programs for anemia prevention	K	KH	Y
IM9.15	Communicate the diagnosis and the treatment appropriately to patients	C	SH	Y
IM9.16	Incorporate patient preferences in the management of anemia	C	SH	Y
IM9.17	Describe the indications for blood transfusion and the appropriate use of blood components	K	KH	Y

IM9.18	Describe the precautions required necessary when performing a blood transfusion	K	KH	Y
IM9.19	Assist in a blood transfusion	S	SH	Y
IM9.20	Communicate and counsel patients with methods to prevent nutritional anemia	C	SH	Y
IM9.21	Determine the need for specialist consultation	K	KH	Y

**Topic: Acute Kidney Injury and Chronic renal failure**                      **Number of competencies: (31)**                      **Number of procedures: (13)**

IM10.1	Define, describe and differentiate between acute and chronic renal failure	K	KH	Y
IM10.2	Classify, describe and differentiate the pathophysiologic causes of acute renal failure	K	KH	Y
IM10.3	Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF	K	KH	Y
IM10.4	Describe the evolution, natural history and treatment of ARF	K	KH	Y
IM10.5	Describe and discuss the aetiology of CRF	K	KH	Y
IM10.6	Stage Chronic Kidney Disease	K	KH	Y
IM10.7	Describe and discuss the pathophysiology and clinical findings of uraemia	K	KH	Y
IM10.8	Classify, describe and discuss the significance of proteinuria in CKD	K	KH	Y
IM10.9	Describe and discuss the pathophysiology of anemia and hyperparathyroidism in CKD	K	KH	Y
IM10.10	Describe and discuss the association between CKD glycemia and hypertension	K	KH	Y
IM10.11	Describe and discuss the relationship between CAD risk factors and CKD and in dialysis	K	KH	Y
IM10.12	Elicit document and present a medical history that will differentiate the aetiologies of disease, distinguish acute and chronic disease, identify predisposing conditions, nephrotoxic drugs and systemic causes	S	SH	Y
IM10.13	Perform a systematic examination that establishes the diagnosis and severity including determination of volume status, presence of edema and heart failure, features of uraemia and associated systemic disease	S	SH	Y

IM10.14	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	K	KH	Y
IM10.15	Describe the appropriate diagnostic work up based on the presumed aetiology	K	SH	Y
IM10.16	Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap	K	KH	Y
IM10.17	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)	S	SH	Y
IM10.18	Identify the ECG findings in hyperkalemia	S	SH	Y
IM10.19	Enumerate the indications and describe the findings in renal ultrasound	K	KH	N
IM10.20	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data	S	P	Y
IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter	S	P	Y
IM10.22	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter	S	SH	N
IM10.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients	C	SH	Y
IM10.24	Counsel patients on a renal diet	K	SH	Y
IM10.25	Identify and describe the priorities in the management of ARF including diet, volume management, alteration in doses of drugs, monitoring and indications for dialysis	K/C	KH	Y
IM10.26	Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glycemic therapy, dyslipidemia, anemia, hyperkalemia, hyperphosphatemia and secondary hyperparathyroidism	K	KH	Y
IM10.27	Describe and discuss the indications for renal dialysis	C/A	KH	Y
IM10.28	Describe and discuss the indications for renal replacement therapy	C	KH	Y
IM10.29	Describe discuss and communicate the ethical and legal issues involved in renal replacement therapy	C/A	KH	Y
IM10.30	Recognise the impact of CKD on patient's quality of life well being work and family	A	K	Y
IM10.31	Incorporate patient preferences in to the care of CKD	A/C	KH	Y

**Topic: Diabetes Mellitus** **Number of competencies: (24)** **Number of procedures: (24)**

IM11.1	Define and classify diabetes	K	KH	Y
IM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1 diabetes	K	KH	Y

IM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic impact and clinical evolution of type 2 diabetes	K	KH	Y
IM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes	K	KH	N
IM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes	K	KH	Y
IM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies	K	KH	Y
IM11.7	Elicit document and present a medical history that will differentiate the aetiologies of diabetes including risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease	S	SH	Y
IM11.8	Perform a systematic examination that establishes the diagnosis and severity that includes skin, peripheral pulses, blood pressure measurement, fundus examination, detailed examination of the foot (pulses, nervous and deformities and injuries)	S	SH	Y
IM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency	K	KH	Y
IM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	K	KH	Y
IM11.11	Order and interpret laboratory tests to diagnose diabetes and its complications including: glucoses, glucose tolerance test, glycosylated hemoglobin, urinary micro albumin, ECG, electrolytes, ABG, ketones, renal function tests and lipid profile	S	SH	Y
IM11.12	Perform and interpret a capillary blood glucose test	S	P	Y
IM11.13	Perform and interpret a urinary ketone estimation with a dipstick	S	P	Y
IM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy	K	KH	Y
IM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy	K	KH	Y
IM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions	K	KH	Y
IM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost effective manner	K	KH	Y
IM11.18	Describe and discuss the pharmacology, indications, adverse reactions and interactions of drugs used in the prevention and treatment of target organ damage and complications of Type II Diabetes including neuropathy, nephropathy, retinopathy, hypertension, dyslipidemia and cardiovascular disease	K	KH	Y
IM11.19	Demonstrate and counsel patients on the correct technique to administer insulin	S/C	SH	Y

IM11.20	Demonstrate to and counsel patients on the correct technique of self monitoring of blood	S/C	SH	Y
IM11.21	Recognise the importance of patient preference while selecting therapy for diabetes	A	KH	Y
IM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment	K	KH	Y
IM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis	K	KH	Y
IM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state	K	KH	N

**Topic: Thyroid dysfunction**

**Number of competencies: (15)**

**Number of procedures**

IM12.1	Describe the epidemiology and pathogenesis of hypothyroidism and hyperthyroidism including the influence of iodine deficiency and autoimmunity in the pathogenesis of thyroid disease	K	K	Y
IM12.2	Describe and discuss the genetic basis of some forms of thyroid dysfunction	K	K	N
IM12.3	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function	K	K	Y
IM12.4	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders	K	KH	Y
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity	S	SH	Y
IM12.6	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and severity including systemic signs of thyrotoxicosis and hypothyroidism, palpation of the pulse for rate and rhythm abnormalities, neck palpation of the thyroid and lymph nodes and cardiovascular findings	S	SH	Y
IM12.7	Demonstrate the correct technique to palpate the thyroid	S	SH	Y
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	K	KH	Y
IM12.9	Order and interpret diagnostic testing based on the clinical diagnosis including CBC, thyroid function tests and ECG and radio iodine uptake and scan	S	SH	Y
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG	S	SH	Y
IM12.11	Interpret thyroid function tests in hypo and hyperthyroidism	S	SH	Y
IM12.12	Describe and discuss the iodisation programs of the government of India	K	KH	Y



IM12.13	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs	K	KH	Y
IM12.14	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status	S/C	SH	Y
IM12.15	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis	K	KH	Y

**Topic: Common malignancies** **Number of competencies: (19)** **Number of procedures**

IM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in India	K	K	Y
IM13.2	Describe the genetic basis of selected cancers	K	K	N
IM13.3	Describe the relationship between infection and cancers	K	K	Y
IM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers	K	K	Y
IM13.5	Describe the common issues encountered in patients at the end of life and principles of management	K	K	N
IM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer	K	K	N
IM13.7	Elicit document and present a history that will help establish the aetiology of cancer and includes the appropriate risk factors, duration and evolution	S	K	Y
IM13.8	Perform and demonstrate a physical examination that includes an appropriate general and local examination that excludes the diagnosis, extent spread and complications of cancer	S	SH	Y
IM13.9	Demonstrate in a mannequin the correct technique for performing breast exam, rectal examination and cervical examination and pap smear	S	K	Y
IM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	S	K	Y
IM13.11	Order and interpret diagnostic testing based on the clinical diagnosis including CBC and stool occult blood and prostate specific antigen	S	K	Y
IM13.12	Describe the indications and interpret the results of Chest X Ray, mammogram, skin and tissue biopsies and tumor markers used in common cancers	K	KH	Y
IM13.13	Describe and assess pain and suffering objectively in a patient with cancer	K	KH	Y
IM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies	K	KH	Y
IM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies	K	KH	Y

IM13.16	Demonstrate an understanding and needs and preferences of patients when choosing curative and palliative therapy	A/C	KH	Y
IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer	K	KH	Y
IM13.18	Describe and discuss the ethical and the medico legal issues involved in end of life care	K	KH	Y
IM13.19	Describe the therapies used in alleviating suffering in patients at the end of life	K	KH	Y

**Topic: Obesity** **Number of competencies: (15)** **Number of procedures: (15)**

IM14.1	Define and measure obesity as it relates to the Indian population	K	K	Y
IM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes	K	K	Y
IM14.3	Describe and discuss the monogenic forms of obesity	K	K	N
IM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity	K	K	Y
IM14.5	Describe and discuss the natural history of obesity and its complications	K	K	Y
IM14.6	Elicit and document and present an appropriate history that includes the natural history, dietary history, modifiable risk factors, family history, clues for secondary causes and motivation to lose weight	S	SH	Y
IM14.7	Perform, document and demonstrate a physical examination based on the history that includes general examination, measurement of abdominal obesity, signs of secondary causes and comorbidities	S	SH	Y
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	S	SH	Y
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.	S	SH	Y
IM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity	K	KH	Y
IM14.11	Communicate and counsel patient on behavioural, dietary and lifestyle modifications	C	SH	Y
IM14.12	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way	A/C	SH	Y
IM14.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for obesity	K	K	Y
IM14.14	Describe and enumerate the indications and side effects of bariatric surgery	K	K	Y
IM14.15	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle	K	K	Y

**Topic: GI bleeding** **Number of competencies: (18)** **Number of procedures: (18)**

IM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding	K	KH	Y
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed	S	SH	Y
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss	K	K	Y
IM15.4	Elicit and document and present an appropriate history that identifies the route of bleeding, quantity, grade, volume loss, duration, etiology, comorbid illnesses and risk factors	S	SH	Y
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination	S	SH	Y
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features	S	KH	Y
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent	S	SH	Y
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	S	SH	Y

IM15.9	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.	S	SH	Y
IM15.10	Enumerate the indications for endoscopy, colonoscopy and other imaging procedures in the investigation of Upper GI bleeding	K	KH	Y
IM15.11	Develop, document and present a treatment plan that includes fluid resuscitation, blood and blood component transfusion, and specific therapy for arresting blood loss	S	KH	Y
IM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion	K	K	Y
IM15.13	Observe cross matching and blood / blood component transfusion	S	SH	Y
IM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of pressors used in the treatment of Upper GI bleed	K	K	Y
IM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori	K	K	Y
IM15.16	Enumerate the indications for endoscopic interventions and Surgery	K	K	Y
IM15.17	Determine appropriate level of specialist consultation	S	K	Y
IM15.18	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options	S	SH	Y

**Topic: Diarrheal disorder**

**Number of competencies: (17)**

**Number of procedu**

IM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non infectious causes	K	K	Y
IM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance	K	K	Y
IM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption	K	K	Y
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel , sexual history and other concomitant illnesses	S	SH	Y
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination	S	SH	Y
IM16.6	Distinguish between diarrhea and dysentery based on clinical features	S	KH	Y
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	S	SH	Y
IM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination	S	SH	Y
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen	S	SH	Y
IM16.10	Identify vibrio cholera in a hanging drop specimen	S	SH	Y
IM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea	K	KH	Y
IM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic imaging and biopsy in the diagnosis of chronic diarrhea	K	KH	Y

IM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea	K	K	Y
IM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea	K	K	Y
IM16.15	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis	S	SH	Y
IM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including immunotherapy	K	K	Y
IM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease	K	K	Y

**Topic: Headache** **Number of competencies: (14)** **Number of procedures: (14)**

IM17.1	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache	K	KH	Y
IM17.2	Elicit and document and present an appropriate history including aura, precipitating aggravating and relieving factors, associated symptoms that help identify the cause of headaches	S	SH	Y
IM17.3	Classify migraine and describe the distinguishing features between classical and non classical forms of migraine	K	KH	Y
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis	S	SH	Y
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation	S	SH	Y
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging	S	SH	Y
IM17.7	Enumerate the indications and describe the findings in the CSF in patients with meningitis	K	K	Y
IM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture	S	SH	Y
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis	S	SH	Y
IM17.10	Enumerate the indications for emergency care admission and immediate supportive care in patients with headache	K	K	Y
IM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine	K	KH	Y
IM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine	K	KH	Y
IM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis	K	KH	Y
IM17.14	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy	A/C	SH	N

**Topic: Cerebrovascular accident** **Number of competencies: (17)** **Number of procedures: (17)**

IM18.1	Describe the functional and the vascular anatomy of the brain	K	KH	Y
IM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non hemorrhagic stroke	K	KH	Y

IM18.3	Elicit and document and present an appropriate history including onset, progression, precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the cerebrovascular accident	S	SH	Y
IM18.4	Identify the nature of the cerebrovascular accident based on the <del>temporal evolution and resolution of the illness</del>	K	KH	Y
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history	S	SH	Y
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion	K/S	SH	Y
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech	K/S	SH	N
IM18.8	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in CNS disease	K	KH	Y
IM18.9	Choose and interpret the appropriate diagnostic and imaging test that will delineate the anatomy and underlying cause of the lesion	S	KH	Y
IM18.10	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)	S	SH	Y
IM18.11	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)	K	KH	Y
IM18.12	Enumerate the indications for and describe acute therapy of non hemorrhagic stroke including the use of thrombolytic agents	K	KH	Y
IM18.13	Enumerate the indications for and describe the role of anti platelet agents in non hemorrhagic stroke	K	KH	Y
IM18.14	Describe the initial management of a hemorrhagic stroke	K	KH	Y
IM18.15	Enumerate the indications for surgery in a hemorrhagic stroke	K	K	Y
IM18.16	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA	S	KH	Y
IM18.17	Counsel patient and family about the diagnosis and therapy in an empathetic manner	A/C	SH	Y

**Topic: Movement disorders** **Number of competencies: (09)** **Number of procedure: (09)**

IM19.1	Describe the functional anatomy of the locomotor system of the brain	K	KH	Y
IM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors	K	KH	Y
IM19.3	Elicit and document and present an appropriate history including onset, progression precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the movement disorders	S	SH	Y
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales	S	SH	Y
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination	S	SH	Y
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings	S	SH	Y
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders	S	SH	Y
IM19.8	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome	K	KH	Y
IM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders	K	KH	Y

**Topic: Envenomation** **Number of competencies: (09)** **Number of procedure: (09)**

IM20.1	Enumerate the local poisonous snakes and describe the distinguishing marks of each	K	KH	Y
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IM20.2	Describe, demonstrate in a volunteer or a mannequin and educate (to other health care workers / patients) the correct initial management of patient with a snake bite in the field	S	SH	Y
IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite	K	KH	Y
IM20.4	Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite	S	SH	Y
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination	S	SH	Y
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites	S	SH	Y
IM20.7	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom	K	KH	Y
IM20.8	Describe the diagnosis, initial approach stabilisation and therapy of scorpion envenomation	K	KH	N
IM20.9	Describe the diagnosis initial approach stabilisation and therapy of bee sting allergy	K	KH	N
<b>Topic: Poisoning</b> <span style="float: right;">Number of competencies: (08)</span> <span style="float: right;">Number of procedures: (08)</span>				
IM21.1	Describe the initial approach to the stabilisation of the patient who presents with poisoning	K	KH	Y
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification	K	KH	Y
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy	K	KH	Y
IM21.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy	K	KH	Y
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning	S	KH	Y
IM21.6	Describe the medico legal aspects of suspected suicidal or homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning	S	KH	Y
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy	A/C	SH	Y
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture	K	KH	Y
<b>Topic: Mineral, Fluid Electrolyte and Acid base Disorder</b> <span style="float: right;">Number of competencies: (13)</span> <span style="float: right;">Number of procedures: (13)</span>				
IM22.1	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia	K	KH	N
IM22.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism	K	KH	N
IM22.3	Describe the approach to the management of hypercalcemia	K	KH	N
IM22.4	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome	K	KH	N
IM22.5	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with hyponatremia	K	KH	Y
IM22.6	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyponatremia	K	KH	Y

IM22.7	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hypokalemia	K	KH	Y
IM22.8	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyperkalemia	K	KH	Y
IM22.9	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis	K	KH	N
IM22.10	Enumerate the causes of describe the clinical and laboratory features of metabolic alkalosis	K	KH	N
IM22.11	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis	K	KH	N
IM22.12	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis	K	KH	N
IM22.13	Identify the underlying acid based disorder based on an ABG report and clinical situation	S	KH	N
<b>Topic: Nutritional and Vitamin Deficiencies</b>				
		<b>Number of competencies: (05)</b>		<b>Number of procedu</b>
IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses	K	KH	Y
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital	K	KH	Y
IM23.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies	K	KH	Y
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients	K	KH	Y
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet	S	SH	Y
<b>Topic: Geriatrics</b>				
		<b>Number of competencies: (22)</b>		<b>Number of procedu</b>
IM24.1	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly	K	KH	Y
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components	S	SH	Y
IM24.3	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states	K	KH	Y
IM24.4	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly	K	KH	Y
IM24.5	Describe and discuss the aetiopathogenesis clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly	K	KH	Y
IM24.6	Describe and discuss the aetiopathogenesis causes, clinical presentation, difference in discussion presentation identification, functional changes, acute care, stabilization, management and rehabilitation of dementia in the elderly	K	KH	Y
IM24.7	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the elderly	K	KH	N
IM24.8	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly	K	KH	Y



IM24.9	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly	K	KH	Y
IM24.10	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly	K	KH	Y
IM24.11	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery	K	KH	Y
IM24.12	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease	K	KH	Y
IM24.13	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly	K	KH	Y
IM24.14	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of common fractures in the elderly	K	KH	Y
IM24.15	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision and visual loss in the elderly	K	KH	Y
IM24.16	Describe and discuss the principles of physical and social rehabilitation, functional assessment, role of physiotherapy and occupational therapy in the management of disability in the elderly	K	KH	Y
IM24.17	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly	K	KH	Y
IM24.18	Describe the impact of the demographic changes in ageing on the population	K	KH	Y
IM24.19	Enumerate and describe the social problems in the elderly including isolation, abuse, change in family structure and their impact on health.	K	KH	Y
IM24.20	Enumerate and describe social interventions in the care of elderly including domiciliary discussion services, rehabilitation facilities, old age homes and state interventions	K	KH	Y
IM24.21	Enumerate and describe ethical issues in the care of the elderly	K	KH	Y
IM24.22	Describe and discuss the aetiopathogenesis, clinical presentation, complications, assessment and management of nutritional disorders in the elderly	K	KH	Y

**Topic: Miscellaneous Infections**

**Number of competencies: (13)**

**Number of procedure**

IM25.1	Describe and discuss the response and the influence of host immune status, risk factors and comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies) and non-febrile infectious disease (e.g. Tetanus)	K	K	Y
IM25.2	Discuss and describe the common causes, pathophysiology and manifestations of these diseases	K	K	Y
IM25.3	Describe and discuss the pathophysiology and manifestations of these diseases	K	KH	Y
IM25.4	Elicit document and present a medical history that helps delineate the aetiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel	S	SH	Y
IM25.5	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin, mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	S	SH	Y
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	K	SH	Y
IM25.7	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, blood biochemistry, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and	K	SH	Y
IM25.8	Enumerate the indications for use of newer techniques in the diagnosis of these infections	K	KH	N
IM25.9	Assist in the collection of blood and other specimen cultures	S	SH	Y

IM25.10	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner	K	KH	Y
IM25.11	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis	C	SH	Y
IM25.12	Communicate to the patient and family the diagnosis and treatment of identified infection	C	SH	Y
IM25.13	Counsel the patient and family on prevention of various infections due to environmental issues	C	SH	Y

**Topic: The role of the physician in the community** **Number of competencies: (49)** **Number of procedures**

IM26.1	Enumerate and describe professional qualities and roles of a physician	K	KH	Y
IM26.2	Describe and discuss the commitment to lifelong learning as an important part of physician	K	KH	Y
IM26.3	Describe and discuss the role of non maleficence as a guiding principle in patient care	K	KH	Y
IM26.4	Describe and discuss the role of autonomy and shared responsibility as a guiding principle in patient care	K	KH	Y
IM26.5	Describe and discuss the role of beneficence of a guiding principle in patient care	K	KH	Y
IM26.6	Describe and discuss the role of a physician in health care system	K	KH	Y
IM26.7	Describe and discuss the role of justice as a guiding principle in patient care	K	KH	Y
IM26.8	Identify discuss medicolegal, socioeconomic and ethical issues as it pertains to organ donation	K	KH	Y
IM26.9	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as it pertains to rights, equity and justice in access to health care	K	KH	Y
IM26.10	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care	K	KH	Y
IM26.11	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to patient autonomy, patient rights and shared responsibility in health care	K	KH	Y
IM26.12	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in health care including advanced directives and surrogate decision making	K	KH	Y
IM26.13	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in emergency care including situations where patients do not have the capability or capacity to give consent	K	KH	Y
IM26.14	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to research in human subjects	K	KH	Y
IM26.15	Identify, discuss and defend, medicolegal,socio-cultural and ethical issues as they pertain to consent for surgical procedures	K	KH	Y
IM26.16	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues as it pertains to the physician patient relationship (including fiduciary duty)	K	KH	Y
IM26.17	Identify, discuss physician's role and responsibility to society and the community that she/ he serves	K	KH	Y
IM26.18	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues in physician- industry relationships	K	KH	Y
IM26.19	Demonstrate ability to work in a team of peers and superiors	S	SH	Y
IM26.20	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner	S	SH	Y
IM26.21	Demonstrate respect to patient privacy	S	SH	Y

IM26.22	Demonstrate ability to maintain confidentiality in patient care	S	SH	Y
IM26.23	Demonstrate a commitment to continued learning	S	SH	Y
IM26.24	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers	S	SH	Y
IM26.25	Demonstrate responsibility and work ethics while working in the health care team	S	SH	Y
IM26.26	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)	S	SH	Y
IM26.27	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities	S	SH	Y
IM26.28	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning	S	SH	Y
IM26.29	Communicate diagnostic and therapeutic options to patient and family in a simulated environment	S	SH	Y
IM26.30	Communicate care options to patient and family with a terminal illness in a simulated environment	S	SH	Y
IM26.31	Demonstrate awareness of limitations and seeks help and consultations appropriately	S	SH	Y
IM26.32	Demonstrate appropriate respect to colleagues in the profession	S	SH	N
IM26.33	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors	S	SH	N
IM26.34	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts	S	SH	Y
IM26.35	Demonstrate empathy in patient encounters	S	SH	Y
IM26.36	Demonstrate ability to balance personal and professional priorities	S	SH	N
IM26.37	Demonstrate ability to manage time appropriately	S	SH	Y
IM26.38	Demonstrate ability to form and function in appropriate professional networks	S	SH	N
IM26.39	Demonstrate ability to pursue and seek career advancement	S	SH	N
IM26.40	Demonstrate ability to follow risk management and medical error reduction practices where appropriate	S	SH	N
IM26.41	Demonstrate ability to work in a mentoring relationship with junior colleagues	S	SH	N
IM26.42	Demonstrate commitment to learning and scholarship	S	SH	N
IM26.43	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as they pertain to in vitro fertilisation donor insemination and surrogate motherhood	K	KH	N
IM26.44	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to medical negligence	K	KH	N
IM26.45	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to malpractice	K	KH	N
IM26.46	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues in dealing with impaired physicians	K	KH	N
IM26.47	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life support	K	KH	Y
IM26.48	Demonstrate altruism	S	SH	Y

IM26.49	Administer informed consent and appropriately address patient queries to a patient being enrolled in a research protocol in a simulated environment	S	SH	Y
<b>Column C: K- Knowledge, S – Skill, A - Attitude / professionalism, C- Communication. Column D: K – Knows, KH - Knows How, Column H: If entry is P: indicate how many procedures must be done independently for certification/ graduation</b>				

### Integration

#### Human Anatomy

AN5.6	Describe the concept of anastomoses and collateral circulation with significance of end-arteries	K	KH	Y
AN7.5	Describe principles of sensory and motor innervation of muscles	K	KH	N
AN7.6	Describe concept of loss of innervation of a muscle with its applied anatomy	K	KH	Y
AN20.8	Identify & demonstrate palpation of femoral, popliteal, post tibial, anti tibial & dorsalis pedis blood vessels in a simulated environment	K/S	SH	Y
AN20.9	Identify & demonstrate Palpation of vessels (femoral, popliteal,dorsalis pedis,post tibial), Mid inguinal point, Surface projection of: femoral nerve, Saphenous opening, Sciatic, tibial, common peroneal & deep peroneal nerve, great and small saphenous veins	K/S	SH	Y
AN22.4	Describe anatomical basis of ischaemic heart disease	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
AN22.7	Mention the parts, position and arterial supply of the conducting system of heart	K	KH	Y
AN24.1	Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy	K	KH	Y
AN24.2	Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlate	K/S	SH	Y
AN24.3	Describe a bronchopulmonary segment	K	KH	Y
AN25.3	Describe fetal circulation and changes occurring at birth	K	KH	Y
AN25.4	Describe embryological basis of: 1) atrial septal defect, 2)ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	K	KH	Y
AN25.5	Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta	K	KH	Y
AN25.7	Identify structures seen on a plain x-ray chest (PA view)	K/S	SH	Y
AN25.8	Identify and describe in brief a barium swallow	K/S	SH	N
AN25.9	Demonstrate surface marking of lines of pleural reflection, Lung borders and fissures, Trachea, Heart borders, Apex beat & Surface projection of valves of heart	K/S	SH	Y
AN28.7	Explain the anatomical basis of facial nerve palsy	K	KH	Y
AN50.3	Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture)	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
AN56.1	Describe & identify various layers of meninges with its extent & modifications	K/S	SH	Y

AN56.2	Describe circulation of CSF with its applied anatomy	K	KH	Y
AN57.4	Enumerate ascending & descending tracts at mid thoracic level of spinal cord	K	KH	Y
AN57.5	Describe anatomical basis of syringomyelia	K	KH	N
AN58.4	Describe anatomical basis & effects of medial & lateral medullary syndrome	K	KH	N
AN60.3	Describe anatomical basis of cerebellar dysfunction	K	KH	N
AN61.3	Describe anatomical basis & effects of Benedict's and Weber's syndrome	K	KH	N
AN62.2	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere	K/S	SH	Y
AN62.3	Describe the white matter of cerebrum	K	KH	Y
AN62.5	Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	K	KH	Y
AN62.6	Describe & identify formation, branches & major areas of distribution of circle of Willis	K/S	SH	Y
AN74.1	Describe the various modes of inheritance with examples	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
AN74.2	Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance	K	KH	Y
AN74.3	Describe multifactorial inheritance with examples	K	KH	Y
AN74.4	Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Hemophilia, Duchene's muscular dystrophy & Sickle cell anaemia	K	KH	N
<b>Physiology</b>				
PY3.12	Explain the gradation of muscular activity	K	KH	Y
PY3.13	Describe muscular dystrophy: myopathies	K	KH	Y
PY4.9	Discuss the physiology aspects of: peptic ulcer, gastro-oesophageal reflux disease, vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's disease	S	SH	Y
PY5.5	Describe the physiology of electrocardiogram (E.C.G), its applications and the cardiac axis	K	KH	Y
PY5.6	Describe abnormal ECG, arrhythmias, heart block and myocardial Infarction	K	KH	Y
PY5.10	Describe & discuss regional circulation including microcirculation, lymphatic circulation, coronary, cerebral, capillary, skin, foetal, pulmonary and splanchnic circulation	K	KH	Y
PY5.13	Record and interpret normal ECG in a volunteer or simulated environment	S	SH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PY5.16	Record Arterial pulse tracing using finger plethysmography in a volunteer or simulated environment	S	SH	N
PY7.7	Describe artificial kidney, dialysis and renal transplantation	K	KH	Y

PY11.14	Demonstrate Basic Life Support in a simulated environment	S	SH	Y
<b>Biochemistry</b>				
BI2.4	Describe and discuss enzyme inhibitors as poisons and drugs, therapeutic enzymes and the clinical utility of various serum enzymes as markers of pathological conditions	K	KH	Y
BI2.5	Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions	K	KH	Y
BI2.6	Discuss use of enzymes in laboratory investigations (Enzyme-based assays)	K	KH	Y
BI2.7	Interpret laboratory results of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions	K	KH	Y
BI3.4	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt)	K	KH	Y
BI3.5	Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders	K	KH	Y
BI3.8	Discuss and interpret laboratory results of analytes associated with metabolism of carbohydrates	K	KH	Y
BI3.9	Discuss the mechanism and significance of blood glucose regulation in health and disease	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
BI3.10	Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism	K	KH	Y
BI4.1	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions	K	KH	Y
BI4.2	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism	K	KH	Y
BI4.3	Explain the regulation of lipoprotein metabolism & associated disorders	K	KH	Y
BI4.4	Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis	K	KH	Y
BI4.5	Interpret laboratory results of analytes associated with metabolism of lipids	K	KH	Y
BI4.6	Describe the therapeutic uses of prostaglandins and inhibitors of eicosanoid synthesis	K	KH	Y
BI4.7	Interpret laboratory results of analytes associated with metabolism of lipids	K	KH	Y
BI5.2	Describe and discuss functions of proteins and structure-function relationships in relevant areas e.g., hemoglobin and selected hemoglobinopathies	K	KH	Y
BI5.5	Interpret laboratory results of analytes associated with metabolism of proteins	K	KH	Y
BI6.1	Discuss the metabolic processes that take place in specific organs in the body in the fed and fasting states	K	KH	Y
BI6.4	Discuss the laboratory results of analytes associated with gout & Lesch Nyhan syndrome	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
BI6.5	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency	K	KH	Y
BI6.7	Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these	K	KH	Y

BI6.8	Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders	K	KH	Y
BI6.9	Describe the functions of various minerals in the body, their metabolism and homeostasis	K	KH	Y
BI6.10	Enumerate and describe the disorders associated with mineral metabolism	K	KH	Y
BI6.11	Describe the functions of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism	K	KH	Y
BI6.12	Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance	K	KH	Y
BI6.13	Describe the functions of the kidney, liver, thyroid and adrenal glands	K	KH	Y
BI6.14	Describe the tests that are commonly done in clinical practice to assess the functions of these organs (kidney, liver, thyroid and adrenal glands)	K	KH	Y
BI6.15	Describe the abnormalities of kidney, liver, thyroid and adrenal glands.	K	KH	Y
BI7.4	Describe applications of recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
BI7.7	Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis	K	KH	Y
BI8.1	Discuss the importance of various dietary components and explain importance of dietary fibre	K	KH	Y
BI8.2	Describe the types and causes of protein energy malnutrition and its effects	K	KH	Y
BI8.3	Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery disease and in pregnancy.	K	KH	Y
BI8.4	Describe the causes (including dietary habits), effects and health risks associated with being overweight/ obesity	K	KH	Y
BI8.5	Summarize the nutritional importance of commonly used items of food including fruits and vegetables (macro-molecules & its importance)	K	KH	Y
BI9.2	Discuss the involvement of ECM components in health and disease	K	KH	Y
BI10.4	Describe & discuss innate and adaptive immune responses, self/non-self recognition and the central role of T-helper cells in immune responses	K	KH	Y
BI11.4	Perform urine analysis to estimate and determine normal and abnormal constituents	S	P	Y
BI11.5	Describe screening of urine for inborn errors & describe the use of paper chromatography	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
BI11.17	Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders.	K	KH	Y

BI11.22	Calculate albumin: globulin (AG) ratio and creatinine clearance	K	KH	Y
BI11.23	Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet	K	KH	N
BI11.24	Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.	K	KH	Y
BI1.26	Calculate albumin: globulin (AG) ratio and creatinine clearance	S	SH	Y
BI1.27	Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet	S	SH	N
BI1.28	Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food	K	KH	Y

#### Pathology

PA6.1	Define and describe edema its types pathogenesis and clinical correlations	K	KH	Y
PA9.4	Define autoimmunity. Enumerate autoimmune disorders	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA9.5	Define and describe the pathogenesis of systemic lupus erythematosus	K	KH	Y
PA9.6	Define and describe the pathogenesis and pathology of HIV and AIDS	K	KH	Y
PA9.7	Define and describe the pathogenesis of other common autoimmune diseases	K	KH	N
PA10.1	Define and describe the pathogenesis and pathology of malaria	K	KH	Y
PA10.2	Define and describe the pathogenesis and pathology of cysticercosis	K	KH	Y
PA10.3	Define and describe the pathogenesis and pathology of leprosy	K	KH	Y
PA10.4	Define and describe the pathogenesis and pathology of common bacterial, viral, protozoal and helminthic diseases	K	KH	N
PA12.3	Describe the pathogenesis of obesity and its consequences	K	KH	Y
PA13.1	Describe hematopoiesis and extramedullary hematopoiesis	K	KH	Y
PA13.2	Describe the role of anticoagulants in hematology	K	KH	Y
PA13.3	Define and classify anemia	K	KH	Y
PA13.4	Enumerate and describe the investigation of anemia	K	KH	Y
PA13.5	Perform, Identify and describe the peripheral blood picture in anemia	S	SH	Y
PA14.2	Describe the etiology, investigations and differential diagnosis of microcytic hypochromic anemia	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA14.3	Identify and describe the peripheral smear in microcytic anemia	S	SH	Y
PA15.1	Describe the metabolism of Vitamin B12 and the etiology and pathogenesis of B12 deficiency	K	KH	Y
PA15.2	Describe the laboratory investigations of macrocytic anemia	K	KH	Y



PA15.4	Enumerate the differences and describe the etiology and distinguishing features of megaloblastic and non-megaloblastic macrocytic anemia	K	KH	N
PA16.1	Define and classify hemolytic anemia	K	KH	Y
PA16.2	Describe the pathogenesis and clinical features and hematologic indices of hemolytic anemia	K	KH	Y
PA16.3	Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia	K	KH	Y
PA16.4	Describe the etiology pathogenesis, hematologic indices and peripheral blood picture of Acquired hemolytic anemia	K	KH	Y
PA16.5	Describe indices and peripheral blood smear	K	KH	Y
PA 17.1	Enumerate the etiology, pathogenesis and findings in aplastic anemia	K	K	N
PA17.2	Enumerate the indications and describe the findings in bone marrow aspiration and biopsy	K	K	N
PA19.6	Enumerate and differentiate the causes of splenomegaly	K	KH	Y
PA21.3	Differentiate platelet from clotting disorders based on the clinical and hematologic features	S	SH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA21.4	Define and describe disseminated intravascular coagulation, its laboratory findings and diagnosis of disseminated intravascular coagulation	K	KH	Y
PA21.5	Define and describe disseminated intravascular coagulation its laboratory findings and diagnosis of Vitamin K deficiency	K	KH	Y
PA22.4	Enumerate blood components and describe their clinical uses	K	KH	Y
PA22.6	Describe transfusion reactions and enumerate the steps in the investigation of a transfusion reaction	K	KH	Y
PA24.2	Describe the etiology, pathogenesis, pathology, microbiology, clinical and microscopic features of peptic ulcer disease	K	KH	Y
PA24.3	Describe and identify the microscopic features of peptic ulcer	S	SH	Y
PA25.1	Describe bilirubin metabolism, enumerate the etiology and pathogenesis of jaundice, distinguish between direct and indirect hyperbilirubinemia	K	KH	Y
PA25.2	Describe the pathophysiology and pathologic changes seen in hepatic failure and their clinical manifestations, complications and consequences	K	KH	Y
PA25.3	Describe the etiology and pathogenesis of viral and toxic hepatitis: distinguish the causes of hepatitis based on the clinical and laboratory features. Describe the pathology, complications and consequences of hepatitis	K	KH	Y
PA25.4	Describe the pathophysiology, pathology and progression of alcoholic liver disease including cirrhosis	K	KH	Y
PA25.5	Describe the etiology, pathogenesis and complications of portal hypertension	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA25.6	Interpret a liver function and viral hepatitis serology panel. Distinguish obstructive from non obstructive jaundice based on clinical features and liver function tests	S	P	Y
PA26.1	Define and describe the etiology, types, pathogenesis, stages, morphology and complications of pneumonia	K	KH	Y
PA26.2	Describe the etiology, gross and microscopic appearance and complications of lung abscess	K	KH	Y

PA26.3	Define and describe the etiology, types, pathogenesis, stages, morphology and complications and evaluation of Obstructive airway disease (OAD) and bronchiectasis	K	KH	Y
PA26.4	Define and describe the etiology, types, pathogenesis, stages, morphology microscopic appearance and complications of tuberculosis	K	KH	Y
PA26.5	Define and describe the etiology, types, exposure, environmental influence, pathogenesis, stages, morphology, microscopic appearance and complications of Occupational lung disease	K	KH	Y
PA26.6	Define and describe the etiology, types, exposure, genetics environmental influence, pathogenesis, stages, morphology, microscopic appearance,metastases and complications of tumors of the lung and pleura	K	KH	Y
PA26.7	Define and describe the etiology, types, exposure, genetics environmental influence, pathogenesis, morphology, microscopic appearance and complications of mesothelioma	K	KH	N
PA27.1	Distinguish arteriosclerosis from atherosclerosis. Describe the pathogenesis and pathology of various causes and types of arteriosclerosis	K	KH	Y
PA27.2	Describe the etiology, dynamics, pathology types and complications of aneurysms including aortic aneurysms	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA27.3	Describe the etiology, types, stages pathophysiology pathology and complications of heart failure	K	KH	Y
PA27.4	Describe the etiology, pathophysiology, pathology, gross and microscopic, features, criteria and complications of rheumatic fever	K	KH	Y
PA27.5	Describe the epidemiology, risk factors, etiology, pathophysiology, pathology, presentations, gross and microscopic, features, diagnostic tests and complications of ischemic heart disease	K	KH	Y
PA27.6	Describe the etiology, pathophysiology, pathology, gross and microscopic, features diagnosis and complications of infective endocarditis	K	KH	Y
PA27.7	Describe the etiology, pathophysiology, pathology, gross and microscopic, features diagnosis and complications of pericarditis and pericardial effusion	K	KH	Y
PA27.8	Interpret abnormalities in cardiac function testing in acute coronary syndromes	S	SH	Y
PA27.9	Classify and describe the etiology, types, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of cardiomyopathies	K	KH	N
PA27.10	Describe the etiology, pathophysiology, pathology features and complications of syphilis on the cardiovascular system	K	KH	N
PA28.3	Define and describe the etiology, precipitating factors, pathogenesis, pathology, laboratory urinary findings, progression and complications of acute renal failure	K	KH	Y
PA28.4	Define and describe the etiology, precipitating factors, pathogenesis, pathology, laboratory urinary findings progression and complications of chronic renal failure	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA28.5	Define and classify glomerular diseases. Enumerate and describe the etiology, pathogenesis, mechanisms of glomerular injury, pathology, distinguishing features and clinical manifestations of glomerulonephritis	K	KH	Y
PA28.6	Define and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, progression and complications of IgA nephropathy	K	KH	Y

PA28.7	Enumerate and describe the findings in glomerular manifestations of systemic disease	K	KH	Y
PA28.8	Enumerate and classify diseases affecting the tubular interstitium	K	KH	Y
PA28.9	Define and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, progression and complications of acute tubular necrosis	K	KH	Y
PA28.11	Define classify and describe the etiology, pathogenesis pathology, laboratory, urinary findings, distinguishing features, progression and complications of vascular disease of the kidney	K	KH	Y
PA28.12	Define classify and describe the genetics, inheritance etiology, pathogenesis, pathology, laboratory, urinary findings, distinguishing features, progression and complications of cystic disease of the kidney	K	KH	Y
PA28.15	Describe the etiology, genetics, pathogenesis, pathology, presenting features and progression of thrombotic angiopathies	K	KH	N
PA31.4	Enumerate and describe the etiology, hormonal dependency and pathogenesis of gynecomastia	K	KH	N
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA32.1	Enumerate, classify and describe the etiology, pathogenesis, pathology and iodine dependency of thyroid swellings	K	KH	Y
PA32.2	Describe the etiology, cause, iodine dependency, pathogenesis, manifestations, laboratory and imaging features and course of thyrotoxicosis	K	KH	Y
PA32.3	Describe the etiology, pathogenesis, manifestations, laboratory and imaging features and course of thyrotoxicosis/ hypothyroidism	K	KH	Y
PA32.4	Classify and describe the epidemiology, etiology, pathogenesis, pathology, clinical laboratory features, complications and progression of diabetes mellitus	K	KH	Y
PA32.5	Describe the etiology, genetics, pathogenesis, manifestations, laboratory and morphologic features of hyperparathyroidism	K	KH	N
PA32.7	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of adrenal insufficiency	K	KH	N
PA32.8	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of Cushing's syndrome	K	KH	N
PA32.9	Describe the etiology, pathogenesis, manifestations, laboratory and morphologic features of adrenal neoplasms	K	KH	N
PA33.5	Classify and describe the etiology, immunology, pathogenesis, manifestations, radiologic and laboratory features, diagnostic criteria and complications of rheumatoid arthritis	K	KH	N
PA35.1	Describe the etiology, types and pathogenesis, differentiating factors, CSF findings in meningitis	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PA35.3	Identify the etiology of meningitis based on given CSF parameters	S	P	Y
<b>Microbiology</b>				
M12.1	Describe the etiologic agents in rheumatic fever and their diagnosis	K	KH	Y
M12.2	Describe the classification, etio-pathogenesis, clinical features and discuss the diagnostic modalities of Infective endocarditis	K	KH	Y

MI2.3	Identify the microbial agents causing Rheumatic heart disease & infective Endocarditis	S	SH	Y
MI2.4	List the common microbial agents causing anemia. Describe the morphology, mode of infection and discuss the pathogenesis, clinical course, diagnosis and prevention and treatment of the common microbial agents causing Anemia	K	KH	Y
MI2.5	Describe the etio-pathogenesis and discuss the clinical evolution and the laboratory diagnosis of kalazaar, malaria, filariasis and other common parasites prevalent in India	K	KH	Y
MI2.6	Identify the causative agent of malaria and filariasis	K/S	SH	Y
MI2.7	Describe the epidemiology, the etio- pathogenesis evolution complications, opportunistic infections, diagnosis prevention and the principles of management of HIV	K	KH	Y
MI3.1	Enumerate the microbial agents causing diarrhea and dysentery. Describe the epidemiology, morphology, pathogenesis, clinical features, and diagnostic modalities of these agents	K	KH	Y
MI3.2	Identify the common etiologic agents of diarrhea and dysentery	S	SH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
MI3.3	Describe the enteric fever pathogens and discuss the evolution of the clinical course, the laboratory diagnosis of the diseases caused by them	K	KH	Y
MI3.4	Identify the different modalities for diagnosis of enteric fever. Choose the appropriate test related to the duration of illness	S	KH	Y
MI3.5	Enumerate the causative agents of food poisoning and discuss the pathogenesis, clinical course and laboratory diagnosis	K	KH	Y
MI3.6	Describe the etio-pathogenesis of Acid peptic disease (APD) and the clinical course. Discuss the diagnosis and management of the causative agent of APD	K	KH	Y
MI3.7	Describe the epidemiology, the etio- pathogenesis and discuss the viral markers in the evolution of Viral hepatitis. Discuss the modalities in the diagnosis, and prevention of viral hepatitis	K	KH	Y
MI3.8	Choose the appropriate laboratory test in the diagnosis of viral hepatitis	K	KH	Y
MI4.1	Enumerate the microbial agents causing anaerobic infections. Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of anaerobic infections	K	KH	Y
MI5.1	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of meningitis	K	KH	Y
MI5.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of encephalitis	K	KH	Y
MI5.3	Identify the microbial agents causing meningitis	S	SH	Y
MI6.1	Describe the etio-pathogenesis, laboratory diagnosis and prevention of Infections of upper and lower respiratory tract	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
MI6.2	Identify the common etiologic agents of upper respiratory tract infections (Gram Stain)	S	P	Y
MI6.3	Identify the common etiologic agents of lower respiratory tract infections (Gram Stain & Acid fast stain).	S	P	Y
MI7.3	Describe the etio-pathogenesis, clinical features, the appropriate method for specimen collection, and discuss the laboratory diagnosis of Urinary tract infections	K	KH	Y

MI8.1	Enumerate the microbial agents and their vectors causing Zoonotic diseases. Describe the morphology, mode of transmission, pathogenesis and discuss the clinical course, laboratory diagnosis and prevention	K	KH	Y
MI8.2	Describe the etio-pathogenesis of opportunistic infections (OI) and discuss the factors contributing to the occurrence of OI, and the laboratory diagnosis	K	KH	Y
MI8.3	Describe the role of oncogenic viruses in the evolution of virus associated malignancy	K	KH	Y
MI8.4	Describe the etiologic agents of emerging Infectious diseases. Discuss the clinical course and diagnosis	K	KH	Y
MI8.5	Define Healthcare Associated Infections ( HAI) and enumerate it types. Discuss the factors that contribute to the development of HAI and the methods for prevention	K	KH	Y

**Pharmacology**

PH1.12	Calculate the dosage of drugs using appropriate formulae for an individual patient, including children, elderly and patient with renal dysfunction	K/S	SH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PH1.16	Describe mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs which act by modulating autacoids, including: Anti-histaminics, 5-HT modulating drugs, NSAIDs, Drugs for gout, Anti-rheumatic drugs, drugs for migraine	K	KH	Y
PH1.21	Describe the symptoms and management of methanol and ethanol poisonings	K	KH	Y
PH1.25	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs used in shock	K	KH	Y
PH1.26	Describe mechanisms of action, types, doses, side effects, indications and contraindications of the drugs modulating the renin angiotensin and aldosterone system	K	KH	Y
PH1.27	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of Antihypertensive drugs and drugs used in shock	K	KH	Y
PH1.28	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in ischemic heart disease (stable, unstable angina and myocardial infarction), peripheral vascular disease	K	KH	Y
PH1.29	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in congestive heart failure	K	KH	Y
PH1.30	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used as Antiarrhythmics	K	KH	N
PH1.31	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in the management of dyslipidemia	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PH1.34	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs used as below: 1. Acid-peptic disease and GERD 2. Antiemetics and prokinetics 3. Antidiarrhoeals 4. Laxatives 5. Inflammatory Bowel Disease 6. Irritable Bowel Disorders, biliary and pancreatic diseases	K	KH	Y

PH1.35	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of drugs used in hematological disorders like: 1. Drugs used in anemias 2. Colony Stimulating factors	K	KH	Y
PH1.36	Describe the mechanism of action, types, doses, side effects, indications and contraindications of drugs used in endocrine disorders (diabetes mellitus, thyroid disorders and osteoporosis)	K	KH	Y
PH1.43	Describe and discuss the rational use of antimicrobials including antibiotic stewardship program	K	KH	Y
PH1.47	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in malaria, KALA AZAR, amebiasis and intestinal helminthiasis	K	KH	Y
PH1.52	Describe management of common poisoning, insecticides, common sting and bites	K	KH	Y
PH2.4	Demonstrate the correct method of calculation of drug dosage in patients including those used in special situations	S	SH	Y
PH3.1	Write a rational, correct and legible generic prescription for a given condition and communicate the same to the patient	S/C	P	Y
PH3.3	Perform a critical evaluation of the drug promotional literature	S	P	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PH3.5	To prepare and explain a list of P-drugs for a given case/condition	S	P	Y
PH5.1	Communicate with the patient with empathy and ethics on all aspects of drug use	A/C	SH	Y
PH5.4	Explain to the patient the relationship between cost of treatment and patient compliance	A/C	SH	Y

#### Community Medicine

CM3.1	Describe the health hazards of air, water, noise, radiation and pollution	K	KH	Y
CM3.3	Describe the aetiology and basis of water borne diseases/jaundice/hepatitis/ diarrheal diseases	K	KH	Y
CM5.1	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	K	KH	Y
CM5.2	Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method	S	SH	Y
CM5.3	Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management	K	KH	Y
CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment	S	SH	Y
CM5.5	Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio- cultural factors	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
CM6.1	Formulate a research question for a study	K	KH	Y
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	S	SH	Y

CM6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs	S	SH	Y
CM6.4	Enumerate, discuss and demonstrate common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion	S	SH	Y
CM7.1	Define Epidemiology and describe and enumerate the principles, concepts and uses	K	KH	Y
CM7.2	Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non- communicable diseases	K	KH	Y
CM7.3	Enumerate, describe and discuss the sources of epidemiological data	K	KH	Y
CM7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data	S	SH	Y
CM7.5	Enumerate, define, describe and discuss epidemiological study designs.	K	KH	Y
CM7.6	Enumerate and evaluate the need of screening tests	S	SH	Y
CM7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures.	S	SH	Y
<b>Number</b>	<b>COMPETENCY The student should be able to</b>	<b>Domain K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
CM7.8	Describe the principles of association, causation and biases in epidemiological studies	K	KH	Y
CM8.1	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases	K	KH	Y
CM8.2	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for Non Communicable diseases (diabetes, Hypertension, Stroke, obesity and cancer etc.)	K	KH	Y
CM8.3	Enumerate and describe disease-specific National Health Programs including their prevention and treatment of a case	K	KH	Y
CM8.4	Describe the principles and enumerate the measures to control a disease epidemic	K	KH	Y
CM8.5	Describe and discuss the principles of planning, implementing and evaluating control measures for disease at community level bearing in mind the public health importance of the disease	K	KH	Y
CM12.1	Define and describe the concept of Geriatric services	K	KH	Y
CM12.2	Describe health problems of aged population	K	KH	Y
CM12.3	Describe the prevention of health problems of aged population	K	KH	Y
CM12.4	Describe National program for elderly	K	KH	Y
CM13.1	Define and describe the concept of Disaster management	K	KH	Y
<b>Number</b>	<b>COMPETENCY The student should be able to</b>	<b>Domain K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
CM13.2	Describe disaster management cycle	K	KH	Y
CM13.3	Describe man made disasters in the world and in India	K	KH	Y

CM13.4	Describe the details of the National Disaster management Authority	K	KH	Y
<b>Forensic Medicine &amp; Toxicology</b>				
FM1.9	Describe the importance of documentation in medical practice in regard to medicolegal examinations, Medical Certificates and medicolegal reports especially - maintenance of patient case records, discharge summary, prescribed registers to be maintained in Health Centres. -- maintenance of medico-legal register like accident register. - documents of issuance of wound certificate - documents of issuance of drunkenness certificate. - documents of issuance of sickness and fitness certificate. - documents for issuance of death certificate. - documents of Medical Certification of Cause of Death - Form Number4 and 4A - documents for estimation of age by physical, dental and radiological examination and issuance of certificate	K	KH	Y
FM2.34	Demonstrate ability to use local resources whenever required like in mass disaster situations	A & C	KH	Y
FM3.22	Define and discuss impotence, sterility, frigidity, sexual dysfunction, premature ejaculation. Discuss the causes of impotence and sterility in male and female	K	K/KH	Y
FM5.5	Describe & discuss Delirium tremens	K	K/KH	Y
FM8.6	Describe the general symptoms, principles of diagnosis and management of common poisons encountered in India.	K	K/KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level</b> K/KH/ SH/P	<b>Core</b> Y/ N
FM8.7	Describe simple Bedside clinic tests to detect poison/drug in a patient's body fluids	K	K/KH	Y
FM8.8	Describe basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination	K	K/KH	Y
FM9.1	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to: Caustics Inorganic – sulphuric, nitric, and hydrochloric acids Organic- Carbolic Acid (phenol), Oxalic and acetylsalicylic acids .	K	K/KH	Y
FM9.2	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Phosphorus, Iodine, Barium	K	K/KH	Y
FM9.3	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Arsenic, lead, mercury, copper, iron, cadmium and thallium	K	K/KH	Y
FM9.4	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Ethanol, methanol, ethylene glycol	K	K/KH	Y
FM9.5	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Organophosphates, Carbamates, Organochlorines, Pyrethroids, Paraquat, Aluminium and Zinc phosphide	K	K/KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level</b> K/KH/ SH/P	<b>Core</b> Y/ N
FM9.6	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Ammonia, carbon monoxide, hydrogen cyanide & derivatives, methyl isocyanate, tear (riot control) gases	K	K/KH	Y



FM10.1	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to: i. Antipyretics – Paracetamol, Salicylates ii. Anti-Infectives (Common antibiotics – an overview) iii. Neuropsychotoxicology Barbiturates, benzodiazepines, phenytoin, lithium, haloperidol, neuroleptics, tricyclics iv. Narcotic Analgesics, Anaesthetics, and Muscle Relaxants v. Cardiovascular Toxicology Cardiotoxic plants – oleander, odollam, aconite, digitalis vi. Gastro-Intestinal and Endocrinal Drugs – Insulin	K	K/KH	Y
FM11.1	Describe features and management of Snake bite, scorpion sting, bee and wasp sting and spider bite	K	K/KH	Y
FM12.1	Describe features and management of abuse/poisoning with following camicals: Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs& solvent	K	K/KH	Y
FM13.1	Describe toxic pollution of environment, its medico-legal aspects & toxic hazards of occupation and industry	K	K/KH	Y
FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico-legal report in a simulated/ supervised environment	S	SH	Y
FM14.3	Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination .	S	SH	Y

#### Dermatology, Venereology & Leprosy

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/ N
DR9.1	Classify, describe the epidemiology, etiology, microbiology pathogenesis and clinical presentations and diagnostic features of Leprosy	K	KH	Y
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination	S	SH	Y
DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions	K	KH	Y
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse re	K	KH	Y
DR9.6	Describe the treatment of Leprosy based on the WHO guidelines	K	KH	Y
DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma.	K	KH	Y
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations	S	SH	Y
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis	K	KH	Y
DR10.4	Describe the prevention of congenital syphilis	K	KH	Y
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted diseases	C	SH	Y
DR10.6	Describe the etiology, diagnostic and clinical features of non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	K	KH	Y
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/ N
DR10.7	Identify and differentiate based on the clinical features non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	S	SH	Y

DR10.8	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	K	KH	Y
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease	K	KH	Y
DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non gonococcal urethritis	K	KH	Y
DR11.1	Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV and its complications including opportunistic infections	K	KH	Y
DR11.2	Identify and distinguish the dermatologic manifestations of HIV its complications, opportunistic infections and adverse reactions	S	SH	Y
DR11.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV	K	KH	Y
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions	S	SH	Y
DR16.1	Identify and distinguish skin lesions of SLE	S	SH	Y
DR16.2	Identify and distinguish Raynaud's phenomenon	S	SH	Y
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency	K/S	SH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level</b> K/KH/ SH/P	<b>Core</b> Y/ N
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency	K	KH	Y
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency	K	KH	Y
DR17.4	Enumerate and describe the various changes in Zinc deficiency	K	KH	Y
DR18.1	Enumerate the cutaneous features of Type 2 diabetes	K	K	Y
DR18.2	Enumerate the cutaneous features of hypo- & hyperthyroidism	K	K	Y

#### Anesthesiology

AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	S	SH	N
AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment advanced life support in adults and children	S	SH	N
AS3.1	Describe the principles of preoperative evaluation	K	KH	Y
AS3.2	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation	S	SH	Y
AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery	S	SH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level</b> K/KH/ SH/P	<b>Core</b> Y/ N
AS3.4	Choose and interpret appropriate testing for patients undergoing Surgery	S	SH	Y
AS3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation	S	SH	Y

AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an ICU	S	KH	Y
AS7.3	Observe and describe the management of an unconscious patient	S	KH	Y
AS7.4	Observe and describe the basic setup process of a ventilator	S	KH	Y
AS7.5	Observe and describe the principles of monitoring in an ICU	S	KH	Y
AS8.4	Describe the principles of pain management in palliative care	K	KH	Y
AS8.5	Describe the principles of pain management in the terminally ill	K	KH	Y
AS10.4	Define and describe common medical and medication errors in anaesthesia	K	KH	Y

#### Otorhinolaryngology (ENT)

EN4.53	Describe the Clinical features, Investigations and principles of management of HIV manifestations of the ENT	K	KH	N
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>

#### Ophthalmology

OP5.2	Define, enumerate and describe the aetiology, associated systemic conditions, clinical features, complications, indications for referral and management of scleritis	K	KH	Y
OP6.3	Enumerate systemic conditions that can present as iridocyclitis and describe their ocular manifestations	K	KH	Y
OP9.3	Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral	K	K	Y

#### Dentistry

DE1.4	Discuss the role of dental caries as a focus of sepsis	K	KH	Y
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#### Psychiatry

PS3.7	Enumerate and describe common organic psychiatric disorders, magnitude, etiology and clinical features	K	KH	Y
PS3.8	Enumerate and describe the essential investigations in patients with organic psychiatric disorders	K	KH	Y
PS4.1	Describe the magnitude and etiology of alcohol and substance use disorders	K	KH	Y
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders	S	SH	Y
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders	S	SH	Y
PS4.4	Describe the treatment of alcohol and substance abuse disorders including behavioural and pharmacologic therapy	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PS4.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in alcohol and substance abuse	K	KH	Y
PS10.1	Enumerate and describe the magnitude and etiology of somatoform, dissociative and conversion disorders	K	KH	Y

PS10.2	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders	S	SH	Y
PS10.3	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders	S	SH	Y
PS10.4	Describe the treatment of somatoform disorders including behavioural, psychosocial and pharmacologic therapy	K	KH	Y
PS10.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in somatoform, dissociative and conversion disorders	K	KH	Y
PS12.1	Enumerate and describe the magnitude and etiology of psychosomatic disorders	K	KH	Y
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders	S	SH	Y
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders	S	SH	Y
PS12.4	Describe the treatment of psychosomatic disorders including behavioural, psychosocial and pharmacologic therapy	K	KH	Y
PS16.1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis	K	KH	Y
PS16.2	Describe the aetiology and magnitude of psychiatric illness in the elderly	K	KH	Y
PS16.3	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PS16.4	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment	S	SH	Y

OG12.1	Define, classify and describe the etiology and pathophysiology, early detection, investigations; principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia	K	KH	Y
OG12.2	Define, Classify and describe the etiology, pathophysiology, diagnosis, investigations, ad	K	KH	Y
OG12.3	Define, Classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of diabetes in pregnancy	K	KH	Y
OG12.4	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of heart diseases in pregnancy	K	KH	Y
OG12.5	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management in pregnancy of urinary tract infections	K	KH	Y
OG12.6	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management in pregnancy of liver disease	K	KH	Y
OG12.7	Describe and discuss Screening, risk factors, management of mother and newborn with HIV	K	KH	Y

**Pediatrics**

<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PE14.3	Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning	K	KH	N
PE32.3	Interpret normal Karyotype and recognize Trisomy 21	S	SH	Y

PE32.9	Discuss the referral criteria and multidisciplinary approach to management of Turner Syndrome	K	KH	N
SU22.6	Describe and discuss the clinical features of hypo- & hyperparathyroidism and the principles of their management	K	KH	Y
SU23.2	Describe the etiology, clinical features and principles of management of disorders of adrenal gland	K	KH	Y
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, Investigations and principles of management of various inflammatory disorder of joints	K	K/KH	Y
OR11.1	Describe and discuss the aetiopathogenesis, Clinical features, Investigations and principles of management of peripheral nerve injuries in diseases like foot drop, wrist drop, claw hand, palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves	K	K/H	Y
<b>Physical Medicine &amp; Rehabilitation</b>				
PM1.2	Define and describe disability, its cause, and magnitude, identification and prevention of disability	K	KH	Y
PM1.3	Define and describe the methods to identify and prevent disability	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PM1.4	Enumerate the rights and entitlements of differently abled persons	K	K	Y
PM2.1	Describe the causes of disability in the patient with a cerebrovascular accident	K	KH	Y
PM2.2	Describe and discuss the treatment of rigidity and spasticity	K	KH	Y
PM2.3	Describe and discuss the principles of early mobilizations, mobility aids and splints	K	KH	Y
PM2.4	Describe and discuss the impact of comorbidities on the rehabilitation of the patient with cerebrovascular accident	K	KH	Y
PM4.1	Describe the common patterns, clinical features, investigations, diagnosis and treatment of common causes of arthritis	K	KH	Y
PM4.5	Demonstrate correct assessment of muscle strength and range of movements	S	SH	Y
PM6.1	Perform and demonstrate a clinical examination of sensory and motor deficits of peripheral nerve	S	SH	Y
PM6.2	Enumerate the indications and describe the principles of nerve conduction velocity and EMG	K	KH	Y
PM7.4	Assess bowel and bladder function and identify common patterns of bladder dysfunction	S	KH	Y
PM7.6	Enumerate the indications and describe the pharmacology and side effects of commonly used drugs in neuropathic bladder	K	KH	Y
PM7.7	Enumerate and describe common life threatening complications following SCI like Deep vein Thrombosis, Aspiration Pneumonia, Autonomic dysreflexia	K	KH	Y
<b>Number</b>	<b>COMPETENCY</b> <b>The student should be able to</b>	<b>Domain</b> <b>K/S/A/C</b>	<b>Level K/KH/ SH/P</b>	<b>Core Y/ N</b>
PM8.1	Describe the clinical features, evaluation, diagnosis and management of disability following traumatic brain injury	K	KH	Y
PM8.2	Describe and discuss cognitive dysfunction like deficits in attention, memory and communication	K	KH	Y

PM8.3	Describe and discuss common behavior and mood changes following TBI	K	KH	Y
PM8.4	Describe metabolic co-morbidities like SIADH, diabetes mellitus, insipidus and endocrine dysfunction following TBI	K	KH	Y
PM8.5	Describe the Vocational opportunities and community based rehabilitation following TBI	K	KH	Y
PM 9.1	Describe rehabilitative aspects as they pertain to the elderly including patients with dementia, depression, incontinence immobility and nutritional needs	K	KH	Y

**Radiotherapy**

RT1.3	Enumerate, describe and discuss classification and staging of cancer (AJCC, FIGO etc.)	K	KH	Y
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Objectives	Date	Time	Suggested Learning methods
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## GENERAL MEDICINE

### Modules that require certification : (01)

At the end of the session the phase III student must be able to 1. List 3 common causes of heart disease 2. Discuss the pathogenesis of 2 common causes of heart failure 3. Explain the 5 stages of epidemiological transition of CVD	10.03.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Discuss the classification of primary cardiomyopathies 2. List 3 genetic abnormalities involved in hypertrophic cardiomyopathy 3. List 3 genetic abnormalities in Dilated cardiomyopathy	10.03.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Explain the pathogenesis of rheumatic fever 2. List the major/ minor criteria for diagnosis of acute rheumatic fever 3. Discuss 3 major complications of rheumatic heart disease	10.03.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Distinguish between different stages of heart failure 2. List 3 management strategies for stage A heart failure 3. List 3 management strategies for stage C heart failure	05.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Define systolic heart failure and list risk factors for developing systolic heart failure 2. Analyse the pathophysiological changes in left ventricle in systolic heart failure 3. Compare symptoms and signs in systolic Vs diastolic heart failure	05.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Describe the compensatory mechanism involved in heart failure 2. Analyse the role of adrenergic nervous system in heart failure 3. Analyse the role of RAAS in heart failure	05.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Enumerate 5 factors that exacerbate heart failure 2. List 3 cardinal symptoms of heart failure 3. Enumerate 3 drugs which can exacerbate heart failure	12.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. List the factors responsible for tachyarrhythmias in heart failure 2. Enumerate 3 arrhythmias in heart failure 3. Describe management of atrial fibrillation in heart failure	12.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Describe Jones criteria for diagnosis of rheumatic fever 2. Discuss the common symptoms of acute rheumatic fever 3. Illustrate treatment algorithm for acute rheumatic fever using a flow chart	19.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Elicit and document the symptoms of heart failure 2. Elicit and document the precipitating factors for heart failure 3. Compile a complete history and establish diagnosis, precipitating factors and functional class of heart failure	02.01.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1. Demonstrate 3 cardinal signs of heart failure 2. Examine and establish the presence of ascitis / hepatosplenomegaly 3. Do a complete cardiac examination and comment on any abnormal findings	02.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Demonstrate the methodology for examining peripheral pulses 2. Demonstrate the methodology for examining collapsing pulse 3. Demonstrate the methodology for examining paradoxical pulse	02.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. List the steps for measurement of blood pressure 2. Measure the blood pressure in the given patient with 90% accuracy 3. Demonstrate measurement of BP in the lower limb	01.07.2023	8.30 to 9.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Demonstrate the steps involved in measuring JVP 2. Measure the JVP in the given patient 3. Discuss the findings observed	01.07.2023	8.30 to 9.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Describe the general principles of cardiac auscultation 2. Auscultate the mitral area and describe the murmur 3. Auscultate the pulmonary area and describe the murmur	01.07.2023	8.30 to 9.30 a.m.	Bedside clinic, DOAP session

At the end of the session the phase IV student must be able to 1. List the differential diagnosis for the observed precordial murmur 2. Discuss the most likely diagnosis based on the clinical presentation	03.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the laboratory test used for supporting a diagnosis of heart failure 2. Discuss the chest x-ray findings in heart failure 3. Analyse the role of blood culture in heart failure	03.07.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Perform a 12 lead ECG with appropriate standardisation 2. Interpret the 12 lead ECG with respect to normal /abnormal 3. Discuss the abnormal ECG findings	03.07.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1.19. At the end of the lecture ,the student should be able to 1. describe the 2D ECHO findings in systolic and diastolic heart failure 2. Analyse the role of BNP in heart failure 3. Discuss the role of Nuclear medicine testing and CAG	06.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to 1. Compose a complete clinical diagnosis 2. Interpret the given laboratory tests and imaging features 3. Determine the level of intervention required	03.07.2023	2.30 to 4.30 p.m.	Small group discussion, Lecture, Bedside clinic
At the end of the session the phase IV student must be able to 1. Discuss the symptoms and physical finding in IE 2. Describe the criteria for diagnosis of IE 3. Discuss the laboratory investigations and Echo findings in IE	03.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion, Lecture
At the end of the session the phase IV student must be able to 1. Assist in collect blood culture from a given patient 2. Discuss the proper techniques involved in collecting the specimen	03.07.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Enumerate the nonpharmacological therapies in heart failure 2. Discuss the role of dietary salt in heart failure management 3. Counsel a patient regarding diet and fluid management in heart failure using flip chart	07.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the role of ACEI in heart failure 2. Discuss the indications and contraindications of beta blockers in heart failure 3. Describe the indications for diuretics in heart failure	07.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. discuss surgical management strategies for heart failure 2. list the indications for cardiac transplantation 3. describe recommended prior evaluation and exclusion criteria for cardiac transplantation	06.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to 1. Identify the type of heart failure and etiology 2. Formulate a management plan for the given patient 3. Recommend follow up protocol	03.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Skill assessment, Small group discussion
At the end of the session the phase IV student must be able to 1 differentiate between primary and secondary prevention of rheumatic fever 2 . Discuss the various formulation and dose of penicillin prophylaxis 3 List drugs which can be used in penicillin allergy	10.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. List the common congenital heart diseases with adult presentation 2. Describe the distinguishing features of cyanotic and acyanotic heart disease	10.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Elicit a complete history and relevant clinical findings in a patient wit ASD 2. Discuss the appropriate investigations of ASD 3. Formulate a management plan	17.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Counsel a patient prior to administration of I.M injection 2. Demonstrate the appropriate technique of I.M injection	17.07.2023	2.30 to 4.30 p.m.	Bedside clinic, Skill assessment

**Items that require certification : (02)**

At the end of the session the phase II student must be able to 1. List 3 non modifiable risk factor for IHD 2. List 3 modifiable risk factor for IHD 3. Discuss the emergency risk factior for IHD	17.03.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
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At the end of the session the phase II student must be able to 1. Analyses the role of diabetes mellitus in pathogenesis of IHD 2. Explain role of hypertension as a risk factor for IHD 3. Explain role of behavioral factor in IHD	24.03.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Describe the lipid cycle using a flow chart 2. Discuss the role of dyslipidemia in pathogenesis of atherosclerosis 3. List 3 drugs used for treatment of dyslipidemia	24.03.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Analyze the pathogenesis of atherosclerosis 2. Describe the natural history of IHD 3. List 3 complications of atherosclerosis	26.10.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Define acute coronary syndrome 2. Classify acute coronary syndrome 3. Describe the various biomarkers used in the diagnosis of ACS	05.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Elicit the cardinal symptoms of IHD 2. Identify the risk factor for IHD 3. Elicit the treatment history for IHD	28.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Measure the blood pressure and document 2. Localise the apex beat comment on cardiomegaly 3. Auscultate comment on the heart sounds.	28.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to Write the complete clinical diagnosis 2. Given list 3 differential diagnosis 3. Defend the most history clinical diagnosis based on history and clinical examination.	28.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Describe the features of typical angina 2. Discuss the presentation of a patient with acute coronary syndrome 3. Describe the typically atypical presentation of AMI	09.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Correctly place the ECG electrode. 2. Take a 12 lead ECG with appropriate standardisation 3. Interpret the 12 lead ECG.	09.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Calculate cardiothoracic ratio and comment on cardiorespiratory. 2. Identify the left heart border. 3. Identify the markers of AMI.	09.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Analyse and interpret as optimal or abnormal. 2. Discuss the optimum value of various sub-fractions 3. Discuss the appropriate treatment strategy.	09.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Enumerate the findings on echo cardiogram in acute MI 2. Discuss the pathophysiology involved in stress testing and contraindications for it. 3. List class I indications for coronary angiogram	05.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the indication for admission to a coronary care unit for a patient with acute coronary syndrome. 2. List the clinical features and investigation in a patient with high risk ACS. 3. Describe the supported therapy for a patient with ACS.	05.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to List the medication used in ACS. 2. Discuss the role of anticoagulants and fibrinolytics in ACS.	13.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss the indications and contraindications for thrombolysis in AMI 2. Describe the indication for PTCA 3. Describe the indications for CABG	13.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss the indication for cardiac rehabilitation. 2. Discuss between inpatient, outpatient cardiac rehabilitation. 3. Describe method of cardiac rehabilitation	13.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss the indication for lipid lowering agents. 2. Enumerate the formulations and dose of lipid lowering agents 3. Describe the side effect of various lipid lowering agents.	20.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the mechanical complications of AMI 2. Discuss the differential diagnosis of a new systolic murmur after AMI 3. Describe the pathophysiology and management of LV dysfunction and cardiogenic shock after AMI.	22.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the drugs used for pain relief in ACS 2. Analyse the role of nitroglycerin in pain relief in ACS.	22.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Observe the various steps of ACLS programmes. 2. List out the steps of ACLS protocol?	16.01.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Perform the steps of BLS on a mannequin with 90% accuracy.	16.01.2023	2.30 to 4.30 p.m.	DOAP session

At the end of the session the phase IV student must be able to List various classes of drugs used in ACS management. 2. Differential returned the mechanism of action of antiplalets, anticoagulants and gp II b III a inhibitors 3. Discuss the role of beta blockers and ACEI in ACS	11.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Communicate to a patient regarding the importance of life style changes in CVD 2.. Counselthe patient regarding dietarychanges and regarding importance of smoking cessation on CVD	09.01.2023	2.30 to 4.30 p.m.	DOAP session

es that require certification: (NIL)

At the end of the session the phase II student must be able to 1. Define community acquired pneumonia ? 2. Define nosocomial pneumonia ? 3. Define aspiration pneumonia?	07.04.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Discuss and describe the organisms responsible for causing the above 3 types of pneumonia	07.04.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Describe the pathogenesis of pneumonia? 2. Diss the clinical presentation of pneumonia?	21.04.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Elicit an appropriate history to diagnose pneumonia? 2. Describe the risk factors for pneumonia? 3. Describe the evolution of pneumonia?	14.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Perform physical examination of respiratory system to stablish the diagnosis? 2. Demonstrate clubbing in a patient? 3. Discuss the lymphatic drainage of lungs.	14.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Document differential diagnosis of fever with cough and expectoration? Describe the clinical features of some differential diagnosis?	14.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Interpret the CBC report of a pneumonia patients? 2. Interpret the chest X-ray findings 3. Discuss pleural fluid analysis in case of synpneumonia pleural effusion	23.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Discuss the ABG analysis in acute respiratory distress patients?	23.01.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Discuss light's criteria? 2. Discuss pleural fluid analysis based on transudate and exudate effusion?	23.01.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Discuss the blood culture reports of pneumonia?	23.01.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Enumerate the indications for HRCT thorax in a pneumonia patient? 2. Describe the value of PCR in pleural fluid analysis to diagnosis pneumonia?	27.07.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Describe the appropriate emperical antibiotics for organisms causing pneumonia? 2. Describe the side effects of some antibiotics?	27.07.2023	2.30 to 4.30 p.m.	Bed side clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Discuss the pharmacology of antibiotics based on culture and sensitivity	27.07.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Perform sputum gram stain? 2. Perform sputum Z-N stain?	31.07.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Enumerate the indications for hospitalisation in pneumonia based on severity? 2. Describe CURB-bs score?	12.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe isolation methods in case of pneumonia? Describe barrier nursing methods?	12.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the supportive therapy in penumonia? 2. Enumerate the indications for ventilation in penumonia?	12.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Counsel the patient and family on diagnostic methods of pneumonia?	18.01.2023	9.30 to 10.30 a.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Enumerate indications of pneumococcal of influenza vaccines in pneumonia?	18.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

es that require certification : (NIL)

At the end of the session the phase II student must be able to 1) At the end define and describe the febrile response 2) List the various factors influencing the febrile response 3) Discuss the influence of immune status on febrile response	28.04.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1) Describe the febrile response in the elderly population 2) Discuss the effect of immunosuppression on the febrile response 3) Discuss the pathophysiology of febrile response in neutropenia and HIV patients	28.04.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to At the end of lecture on phase 4 MBBS student must 1. List the common causes of fever 2. Able to describe the seasonal outbreaks of infectious diseases 3. Able to describe the clinical symptoms and signs helping in diagnose the common infections 4. Describe the pathophysiology of dengue fever and describe the preventive measures to prevent outbreak	05.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. List the autoimmune disorders presenting as fever 2. Describe the pathophysiology of inflammatory conditions causing fever 3. Discuss the manifestations of fever in inflammatory disorder 4. Differentiate fever of inflammatory origin to infection origin 5. Must enlist the treatment modalities for inflammatory causes of fever 6. Draw a stepwise approach in identify the autoimmune disease causing fever	05.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. List the malignancies presenting with fever 2. Describe the pathophysiology of fever in malignant conditions 3. Discuss the other clinical manifestations helping in diagnosing the malignant condition 4. Describe the treatment of fever of malignant origin 5. Demonstrate the steps of examination of lymph nodes and describe the significant lymph node enlargement 6. Discuss the palpatory methods of liver and spleen in haematogenous and lymph node malignancies	02.11.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the causative organism of malaria and vector that spreads the disease 2. Draw the life cycle of malarial parasite 3. Describe the pathophysiology of malarial fever 4. Discuss the clinical manifestations of malaria 5. List the drugs used in treatment of malaria 6. Discuss the complications of malarial fever 7. Describe the complications of malarial fever 8. Describe the various investigation used with sensitivity and specificity of the investigation used for diagnosis	09.11.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the pathophysiology of sepsis syndrome 2. Discuss the clinical manifestations of sepsis syndrome 3. List the components of systemic inflammatory response syndrome 4. Define multi organ dysfunction syndrome 5. Define and describe pathology of disseminated intravascular coagulation 6. Demonstrate the correct method of collecting body fluids for diagnosing sepsis 7. Describe the treatment of sepsis syndrome 8. Discuss the role of corticosteroids in sepsis syndrome	16.11.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Define fever of unknown origin 2. Describe the approach to a case of fever of unknown origin 3. Discuss clinical manifestations of fever of unknown origin 4. Enlist the causes of fever in normal host, neutropenic host, nosocomial host and HIV patient 5. List the causes of familial fever 6. List the drugs that can cause fever 7. Discuss role of corticosteroids and colchicine in fever of unknown origin	23.11.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to Describe the various pattern of fever and the causes of it 2) Write a detailed medical history of a fever patient and discuss the importance of immune status, comorbid conditions in a patient	25.11.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1) Describe and identify the skin manifestations in fever 2) Perform a stepwise approach to look for lymphadenopathy and discuss consistency of it in various conditions 3) Discuss the various findings present in chest examination in a febrile patient 4) To do the palpation of liver and spleen	25.11.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1) Discuss the differential diagnosis of fever 2) List and prioritise the history and clinical features that help in diagnosing the cause of fever 3) To do a stepwise approach to a fever case and identify the diagnosis	25.11.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session

At the end of the session the phase III student must be able to 1) To order the appropriate investigations based on the history and examination in a fever patient 2) Discuss the normal values of complete haemogram and urine analysis 3) Describe the procedure of performing and collecting various investigations 4) To interpret the results of them investigations to diagnose the cause of fever	25.11.2021	2.30 to 4.30 p.m.	Bedside clinic, Skill assessment
At the end of the session the phase II student must be able to 1) Discuss the indications and sensitivity & specificity of sputum smear examination 2) To analyse the quality of the sputum sample and differentiate sputum from saliva 3) To discuss and perform the procedure of preparing a sputum smear and gram staining for examination 4) Must interpret the findings of a sputum smear examination and identify the pathogen	31.07.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase II student must be able to 1) To state the sensitivity & specificity of sputum AFB examination in diagnosis of pulmonary TB 2) List and discuss the newer investigations in diagnosis of PTB 3) To differentiate sputum from saliva 4) Discuss the pathophysiology of acid fast bacilli and list the various AFB bacteria 5) To perform the procedure of preparing a sputum AFB staining for examination	31.07.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1) To state the sensitivity & specificity of Malarial smear examination in diagnosis 2) Discuss the other investigations in diagnosis of malaria 3) Perform the preparation of a thick and thin smear 4) Describe the use of the 2 types of smear in diagnosis 5) Interpret the peripheral blood picture in malaria and differentiate the various malarial species	11.11.2021	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Discuss the investigations required in inflammatory disorders 2) Interpret the results of specific rheumatological tests and correlate clinically the test results 3) List the use of serological tests in the diagnosis of infectious diseases including HIV 4) Interpret the results of serological tests correlation with clinical findings with specificity and sensitivity of these tests 5) Discuss the indications for bone marrow aspiration and biopsy in fever patients	19.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1) Discuss the indications and contraindications of bone marrow aspiration & biopsy procedure 2) Describe the procedure of performing a bone marrow aspiration & biopsy procedure 3) To observe and assist in bone marrow aspiration and biopsy procedure 4) To prepare a smear of bone marrow aspiration and identify the quality of sample collected	18.11.2021	2.30 to 4.30 p.m.	Skills lab
At the end of the session the phase IV student must be able to 1) Discuss the role & indications of imaging modalities in fever cases 2) Discuss the common findings in a chest X ray in fever cases 3) To interpret the findings of Chest X ray	19.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1) Describe the procedure of blood and wound culture 2) List the indications for culture samples 3) Discuss the problems in interpreting the results (contamination, antibiotic use) 4) To assist in collection of blood and wound cultures	18.11.2021	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Discuss the sensitivity and specificity of mantoux test 2) Describe the indications of mantoux test 3) Describe the immune mechanism of mantoux test 4) Discuss the procedure and interpretation of the mantoux tests 5) Discuss the pitfalls in mantoux test	30.01.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Develop and present a diagnostic plan for a fever case 2) Discuss the investigations in a cost effective manner for a definitive diagnosis in a fever patient	30.01.2023	2.30 to 4.30 p.m.	Bedside clinic, Skill assessment
At the end of the session the phase IV student must be able to 1) List the antimalarial drugs 2) Discuss the indications, sideeffects and mechanism of action of antimalarials 3) Discuss the sensitivity and specificity of antimalarial drugs 4) Describe the treatment of complicated malaria 5) Discuss the development of resistance to antimalarial drug	29.07.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss about the national malarial control programme 2) Describe the drug resistance pattern in the community to antimalarials 3) To write a prescription of drugs for malaria based on drug resistance and national programme	29.07.2023	8.30 to 9.30 a.m.	Small group discussion

At the end of the session the phase IV student must be able to 1) To know the common organisms causing infection of the organ systems 2) List and describe the common antibiotics used in clinical practice 3) Draw a schematic empirical treatment plan for a fever case based on clinical findings	30.01.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Demonstrate the method of communicating the diagnosis and treatment plan to patient and attenders 2) Demonstrate the method of explaining th prognosis to patient and attenders	30.01.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Describe the various methods of preventing and eradicating malarial vector 2) Discuss the chemoprophylaxis of malaria 3) Demonstrate the counseling of a patient for malaria prevention	30.01.2023	2.30 to 4.30 p.m.	DOAP session

**res that require certification : (NIL)**

At the end of the session the phase II student must be able to 1) Describe the physiology of bilirubin metabolism 2) Describe the physiological and congenital hyperbilirubinemia 3) Discuss the approach to hyperbilirubinemia on biochemical basis 4) Describe the classification of hyperbilirubinemia	12.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1) List the various causes of liver injury 2) Describe the pathophysiology of alcoholic liver disease 3) Describe the pathophysiology of viral hepatitis	19.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1) Describe the gross anatomical changes in micro and macronodular cirrhosis 2) Draw the histopathological changes in micro and macronodular cirrhosis 3) Describe the pathological changes in liver in storage disorders 4) Describe the pathological changes in liver in biliary diseases	19.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1) Discuss the global incidence and prevalence of viral hepatitis 2) Discuss the microbiology of hepatitis A,B, C,D, E viruses 3) Describe the immunology of viral hepatitis 4) Describe the clinical features and evolution of viral hepatitis 5) Discuss the stepwise approach of serological markers and viral load in prognosis and treatment of viral hepatitis	07.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to Describe the pathophysiology of alcoholic liver disease 2) Describe the clinical features of alcoholic liver disease 3) Assess the prognosis and complications in a alcoholic liver disease 4) calculate discriminant factor in alcoholic liver disease and interpret it in a patient	14.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe complications of liver cirrhosis ? 2) Describe the pathology of portal hypertension ? 3) Describe clinical features of portal hypertension and its complications ? 4) Describe the clinical evaluation of Spontaneous bacterial peritonitis , hepatorenal syndrome , hepatocellular carcinoma ?	25.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the common drugs causing liver damage ? 2) Describe the pathophysiology of drug induced liver disease? 3) Describe the clinical clues and laboratory findings in drug induced liver disease ? 4) Discuss the appropriate management of paracetamol poisoning ?	28.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the pathology of gall stones formation ? 2) Describe the clinical features of cholelithiasis and cholecystitis ? 3) Discuss the management of cholelithiasis and cholecystitis ? 4) Describe the complications of cholelithiasis and cholecystitis ?	01.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1) Describe the clinical history in a case with liver disease ? 2) Discuss the risk factors associated with liver disease ? 3) Describe the amount , pattern of alcohol consumption in liver disease? 4) Describe the clinical importance of drug history , sexual history and family history in liver disease ?	09.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1) Discuss and examine head to foot and identify the markers of liver cell failure ? 2) Enumerate the causes of abdominal distension and perform abdominal examination for ascites? 3) Elicit the clinical features of hepatic encephalopathy and portal hypertension ?	09.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session

At the end of the session the phase III student must be able to 1) Differential diagnosis based on the clinical presentation of liver disease ? 2) Specify etiologies based on the clinical presentation of liver disease ?	09.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1) Discuss the baseline investigations like Complete blood count , liver function test in detail for liver disease ? 2) Discuss about the serology test in hepatitis ? 3) Discuss about the Ascitic fluid investigations needed in pathology , microbiology and biochemistry ? 4) Describe serum albumin and ascitic fluid albumin gradient and its interpretation? 5) Based on the colour of the ascitic fluid tapping list out the etiologies ?	06.02.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1) What are the indications of ultrasound abdomen in liver disease ? 2) Enumerate the indications of ERCP and MRCP ? 3) How MRCP is different from ERCP ?	06.02.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1) Diagnostics approach in case of hyperbilirubinemia ? 2) Should be able to interpret liver function test ? 3) Serological interpretation in case of hepatitis ?	13.02.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to identify SAAG gradient and differential diagnosis of high protein and low protein ascitic fluid analysis 2. What are the causes of low SAAG gradient.	13.02.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. How will you treat hepatic encephalopathy 2. What is the treatment of portal hypertension 3. How will you diagnosis spontaneous bacterial peritonitis and what is the main stay of treatment.	13.02.2023	2.30 to 4.30 p.m.	Written, Small group discussion
At the end of the session the phase IV student must be able to 1. What are the vaccines available for preventing from hepatitis 2. What is the counselling you will give for spouse	14.08.2023	2.30 to 4.30 p.m.	Written, Small group discussion
At the end of the session the phase IV student must be able to 1. What is child pughs score and MELD score ? and its interpretation	14.08.2023	2.30 to 4.30 p.m.	Written, Small group discussion

**lures that require certification : (NIL)**

At the end of the session the phase III student must be able to 1. Describe the symptoms of acute HIV seroconversion	21.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Define CDC criterial for HIV AIDS 2. Classify HIV AIDS based on CDC criteria.	21.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the oppurtunistic infections in HIV/AIDS with its relation to CDC count	28.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Discuss the pathogenesis of oppurtunistic infection. 2. Describe the evolution of oppurtunistic infection an HIV AIDS. 3. Enumerate the clinical features of oppurtunistic infection in HIV, AIDS.	28.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the pathogenesis of malignancy in HIV 2. Discuss the clinical features HIV malignancy	30.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the different skin lesions in HIV 2. Describe tis pathogenesis in HIV 3. Enumerate its clinical features.	30.12.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Document the medical history and delineate the aetiology, risk factors for oppurtunistic infection and nutritional status.	16.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Discuss the differential diagnosis of presenting symptoms.	16.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session, Small group discussion
At the end of the session the phase III student must be able to 1. List the diagnostic test to describe and classify severity of HIV AIDS.	16.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the diagnostic test for oppurtunistic infections.	16.12.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session, Small group discussion

At the end of the session the phase IV student must be able to 1. Discuss the indications of imaging in HIV AIDS. 2. Describe the findings in CT (Brain/Chest MRI in HIV/AIDS).	20.02.2023	2.30 to 4.30 p.m.	Small group discussion, Lecture, Bedside clinic
At the end of the session the phase IV student must be able to 1. Discuss the indications for ABG, Chest radiograph 2. Describe the findings in chest radiograph 3. Interpret the ABG.	20.02.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session, Small group discussion
At the end of the session the phase IV student must be able to 1. What are the commonly used drugs in different types of diarrhoea and list out its side effects.	15.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. How many sample of AFB is taken for diagnosing PTB? 2. How much organisms are required per high power field for diagnosis	31.07.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. How will you perform lumbar puncture and its significance? 2. What are complications and contra indications of lumbar puncture	27.02.2023	2.30 to 4.30 p.m.	Simulation
At the end of the session the phase IV student must be able to 1. What are the principles of HAART 2. Classify antirevirals drugs and its side effects	16.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. What is post exposure prophylaxis and its indications ? 2. What are the regimens adopted in post exposure prophylaxis.	16.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. What is the most common HIV related opportunistic infection in India? 2. What is IRIS?	18.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. How will you counsel for prevention of HIV?	06.03.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. After confirming HIV positive serology, What is the treatment plan for the patients?	06.03.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. What is the importance of anti retroviral drugs and its compliance?	06.03.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. What are the Ethical and legal issues for maintaining confidentiality and to disclose the reports of HIV Positive patients	06.03.2023	2.30 to 4.30 p.m.	DOAP session, Small group discussion
At the end of the session the phase IV student must be able to 1. What are the HIV related discrementary attitudes?	06.03.2023	2.30 to 4.30 p.m.	Small group discussion

s that require certification: (NIL)

At the end of the session the phase III student must be able to 1. Define autoimmune disease 2. Explain the basic pathology of autoimmune diseases 3. Explain the various associations between autoimmune diseases	04.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the genetic basis of autoimmune diseases 2. Explain the risk factors involved in autoimmune diseases	04.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Explain the various conditions causing joint pain 2. Explain how autoimmune diseases affect the joints 3. How will differentiate various causes of arthritis based on joints involved	11.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Explain the pathogenesis involved in autoimmune arthritis 2. Explain the clinical features with which patient will be presenting	11.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. What are the acute causes for joint pain 2. What are the causes for subacute joint pain 3. What are the causes for chronic joint pain	18.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. What is the difference between arthralgia and arthritis 2. What is the pathogenesis in arthritis 3. What is the pathogenesis in arthralgia 4. What are the inflammatory causes of arthritis 5. What are the mechanical causes of arthritis	18.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. What will be the presenting complaints in periarticular inflammation 2. How will you distinguish articular from peri articular involvement based on clinical features	25.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion

At the end of the session the phase III student must be able to 1.What are the causes of large joint involvement 2.What are the causes of small joint involvement 3.What are the causes of monoarthritis 4.What are the causes of polyarthritiis	25.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1.What are the signs of articular disease 2.What are the signs of periarticular disease 3.Enumerate 3 differences between articular and periarticular diseases	25.01.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Explain how systemic involvement occurs in rheumatological conditions 2.What are the systemic manifestations of rheumatoid arthritis 3.What are the systemic manifestations of ankylosing spondylitis	21.01.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1.What are the clinical features of rheumatoid arthritis 2.What is seronegative arthritis 3.What is gouty arthritis	06.01.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1.How will you examine the joints 2.What are the examination findings in rheumatoid arthritis 3.What are the deformities in rheumatoid arthritis 4.What are the skin features in autoimmune arthritis	06.01.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1.Formulate a flow chart on how to come to a diagnosis in a case of joint pain 2.Draw a tabular column eliciting the various causes for small and large joint arthritis	06.01.2022	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase III student must be able to 1.How will you workup a case of polyarthritiis 2.How will you investigate a case of mono arthritis 3.What are the basic investigations you will do for a patient with joint pain	06.01.2022	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase III student must be able to 1.How will you workup a case of autoimmune arthritis 2.What is the relevance of anti-ccp in a case of arthritis 3.What is the significance of ANA in a case of joint pain 4.What are the various tests for autoimmune etiology	13.01.2022	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase III student must be able to 1.What is arthrocentesis 2.What is the indications of arthrocentesis 3.Explain the procedure of arthrocentesis	20.01.2022	2.30 to 4.30 p.m.	Small group discussion, Lecture
At the end of the session the phase III student must be able to 1.When will you ask for xray in a patient with joint pain 2.What are the findings you will look for in a patient with rheumatoid arthritis in Xray 3.What are the findings of gouty arthritis in Xray	20.01.2022	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase III student must be able to 1.Establish a treatment plan for arthritis 2.What are the Drugs available to treat joint pain 3.What are the side effects of analgesics 4.How will you counsel a patient with autoimmune arthritis 5.How will you treat a patient with rheumatoid arthritis and gouty arthritis	20.01.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1.How will you diagnose a case of rheumatological disease 2.How will you counsel the patient regarding long term treatment 3.How will you counsel the patient for follow up 4.How will you counsel the family members of a patient with rheumatological disease 5.How will you treat a case of rheumatological arthritis	13.01.2022	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase III student must be able to 1. What are medications used for sympatomatic joint pain relief 2. What are the uses of physiotherapy in the relief of joint pain	27.01.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1. What are the risk factors of crystalline arthropathies 2. Differential diagnosis of crystalline arthropathies 3. How will you manage crystalline arthropathies.	27.01.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1. What are the systemic rheumatic conditions 2. How will you manage systemic rheumatologic conditions.	27.01.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1. What are DMARDS. 2. What are the side effects and advantages	27.01.2022	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase III student must be able to 1. How will you counsil the patients for initiating the therapy	03.02.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1. How will you advice the patient for regular check up of LFT and RFT and other parameters.	03.02.2022	2.30 to 4.30 p.m.	DOAP session



At the end of the session the phase III student must be able to 1. What are the impacts and disability adjust life year in rheumatologic conditions?	03.02.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1. What is the need for specialist consultation in rheumatological conditions and what are its benefits.	03.02.2022	2.30 to 4.30 p.m.	Small group discussion, Lecture

res that require certification: (NIL)

At the end of the session the phase II student must be able to 1. Describe the epidemiology ,prevalence of hypertension 2. Analyse the etiology of primary hypertension	26.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. list the various mechanisms involved in pathophysiology of hypertension 2. discuss the role of autonomic nervous system in hypertension 3. analyse the role of RAAS in hypertension	26.05.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Describe the genetic basis of HTN 2. list the monogenic hypertensive diseases	02.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. define hypertension 2. discuss classification of blood pressure	09.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. list the causes of secondary hypertension 2. discuss renal and renovascular causes of secondary hypertension 3. discuss the differences between primary and secondary hypertension	02.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. define hypertensive urgency and emergency 2. list the preferred parental drugs for selected hypertensive emergencies	09.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. discuss the neurogenic causes of secondary hypertension 2. describe the causes, clinical features of endocrine causes of hypertension 3. list the medications responsible for secondary hypertension	02.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Discusses hypertension heart disease 2. Analyses the effect of hypertension in the brain 3. Describe the hypertensive damage to kidneys.	04.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Elicit and document relevant history pertaining to hypertension. 2. Identify the risk factor for hypertension. 3. Elicit relevant treatment history.	21.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Accurately measure the BP and document. 2. Examine the cardiovascular system. 3. Do a fundus examination	21.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Generate a complete clinical diagnosis. 2. Give a differential diagnosis based on clinical feature	21.10.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to Discuss the investigation for assessment of target organ damage.	21.10.2021	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase III student must be able to Enumerate the indication for basic lab indication 2. interpret the lab results	23.12.2021	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase III student must be able to 1. Discuss lifestyle interventions for essential HTN. 2. describe pharmacologic therapy for hypertension	23.12.2021	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase III student must be able to 1. List hypertension emergencies 2. Discuss identification of HT emergencies. 3. Discusses management of hypertensive emergency	23.12.2021	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase II student must be able to 1. Counsel a hypertension patient in dietary modifications. 2. Discuss the importance of physics activity in management of hypertension using a flip chart.	13.03.2021	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase II student must be able to 1. Record a 12 lead eeg with appropriate standardization 2 interpret the 12 lead eeg. 3. Discusses various ECG for LVH	13.03.2021	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase II student must be able to 1. Discuss the various treatment –for hypertension 2. Communicate to the patient regarding antihypertensive drugs available and possible side effects 3. come to a treatment plan after incorporating patient preference.	13.03.2021	2.30 to 4.30 p.m.	DOAP session

At the end of the session the phase II student must be able to 1. Discuss the impact of HTN on quality of life using flip chart 2. discuss the possible impact on a family a whole	13.03.2021	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. discuss the need for specialist consultation in a patient with HTN. 2. describe need for IP management in a pt with HTN.	03.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

**Items that require certification : (NIL)**

At the end of the session the phase II student must be able to 1. Define anemia 2. Classify anemia based on cell size and reticulocyte count	16.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Enlist the causes of microcytic hypochromic anemia 2. Discuss the prevalence of each type of anemia 3. Discuss the causes of macrocytic anemia 4. Describe the hematological picture of macrocytic anemia	16.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Elicit medical history for a case of anemia 2. Elicit history pertaining to risk factors for developing anemia 3. Discuss the importance of dietary and menstrual history in a case of anemia	10.02.2022	2.30 to 4.30 p.m.	Bed side clinic, DOAP session
At the end of the session the phase III student must be able to 1. Student should be able to do systematic examination in a case of anemia-examination of pallor, oral examination, lymph node examination 2. Importance of cardiovascular examination in a case of anemia 3. know what to look for in abdominal examination in a case of anemia with jaundice	10.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. enlist schematically various causes of anemia 2. enlist the investigations for a case of anemia based on types.	10.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. should be able to draw a schematic diagnostic workup for a case of anemia 2. discuss the diagnostic approach of a hemolytic anemia	10.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase II student must be able to 1. enlist the components of a hemogram investigation 2. Describe the importance of red cell indices	23.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Describe various tests done for iron deficiency anemia 2. Describe the components of iron study and importance of each entity	23.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the type of anemia based on a hemogram report 2. Name the red cell indices 3. Importance of serum vitamin B12 levels and folate level	17.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Perform a peripheral smear study in lab 2. Perform and interpret a stool sample for occult blood, ova and cyst.	17.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Indications of a bone marrow study 2. interpret the results of bone marrow aspiration study 3. enlist the causes of bone marrow failure presenting as anemia	08.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Should be able to develop a diagnostic plan for diagnosing anemia 2. Interpret results to determine the etiology of anemia	08.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Prescribe replacement therapy for vitamin B12 deficiency and folate deficiency patients 2. Calculate the iron requirement in a case of iron deficiency anemia 3. Precautions and methods of intravenous iron supplementation	17.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Describe the national programs for anemia prevention 2. Enlist the methods for iron supplementation	09.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Educate patients about the disease-anemia 2. Communicate the diagnosis and treatment compliance to patient	09.02.2023	9.30 to 10.30 a.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Should discuss the therapeutic choices available to the patient 2. Incorporate the patient preference in treatment	20.03.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Discuss the various indications of blood transfusion 2. Name the components of whole blood 3. Name the indications for different blood components	11.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

At the end of the session the phase IV student must be able to 1. Discuss the precautions and pre requisite investigations to initiate a blood transfusion 2. Perform a blood transfusion	11.02.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Assist in a blood transfusion and recognize the common reactions during procedure 2. Enlist indications of massive blood transfusion	11.02.2023	9.30 to 10.30 a.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1. Communicate different methods to prevent anemia 2. Counsel patients about safe practices and first aid in a case of bleeding in road traffic accidents.	11.02.2023	9.30 to 10.30 a.m.	DOAP session
At the end of the session the phase IV student must be able to recognize the need for specialist consult	22.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

**res that require certification: (NIL)**

At the end of the session the phase III student must be able to 1. Define acute kidney injury ? 2. Define chronic kidney injury and how will you estimate eGFR and stages of chronic kidney injury.	08.02.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. What are the pre renal, renal and post renal causes of acute kidney injury? 2. How will you manage pre renal cause of ARF.	15.02.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the pathophysiology of pre renal acute renal failure (ARF) 2. Describe the pathophysiology of renal acute renal failure (ARF) 3. Describe the pathophysiology of post renal acute renal failure (ARF) 4. Describe the causes of prerenal ARF 5. Describe the causes of renal ARF 6. Describe the causes of postrenal ARF	22.02.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the evolution of ARF 2. Describe the natural history of ARF 3. Describe the treatment of ARF	22.02.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Define chronic renal failure 2. Discuss the etiology of chronic renal failure 3. Describe the pathophysiology of chronic renal failure	01.03.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Define glomerular filtration rate 2. Calculate GFR 3. Describe stages of chronic kidney disease	01.03.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe uraemia 2. Discuss the pathophysiology of uraemia 3. Discuss the clinical findings of uraemia 4. Discuss different causes for uraemia	08.03.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Classify proteinuria in CKD 2. Describe the significance of proteinuria in CKD	23.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe anemia in CKD 2. Discuss the pathophysiology of anemia in CKD 3. Describe hyperparathyroidism in CKD 4. Discuss the pathophysiology of hyperparathyroidism in CKD	25.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the association between CKD glycemia and Hypertension 2. Describe the treatment strategy for Diabetes 3. Describe the treatment strategy for hypertension in CKD	29.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe coronary artery disease (CAD) risk factors in CKD. 2. Discuss the relationship between CAD risk factors and CKD on medical management. 3. Discuss the relationship between CAD risk factors and CKD on dialysis.	29.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Elicit, document and present a medical history that will differentiate the aetiologies of renal diseases. 2. Elicit, document and present a medical history that will distinguish acute and chronic kidney disease. 3. Elicit, document and present a medical history that will identify predisposing conditions, nephrotoxic drugs and systemic causes for acute and chronic kidney disease.	24.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to perform a systemic examination that establishes the diagnosis and severity including determination of volume status in CKD 2. perform a systemic examination that establishes the presence of edema and heart failure 3. perform a systemic examination that establishes features of uraemia and associated systemic disease.	24.02.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session

At the end of the session the phase III student must be able to Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	24.02.2022	2.30 to 4.30 p.m.	DOAP session, Small group discussion
At the end of the session the phase III student must be able to Describe the appropriate diagnostic work up based on the presumed etiology	24.02.2022	2.30 to 4.30 p.m.	DOAP session, Small group discussion
At the end of the session the phase III student must be able to Enumerate the indications for renal function tests, calcium ,phosphorus,PTH, urine electrolytes, urine osmolality, anion gap. 2. Interpret the results of investigations.	03.03.2022	2.30 to 4.30 p.m.	DOAP session, Small group discussion
At the end of the session the phase III student must be able to Describe and calculate indices of renal function based on available laboratories including fractional excretion of sodium FENa and creatinine clearance CrCl.	03.03.2022	2.30 to 4.30 p.m.	DOAP session, Small group discussion
At the end of the session the phase III student must be able to Describe hyperkalemia in CKD 2. Identify the ECG findings in hyperkalemia.	03.03.2022	2.30 to 4.30 p.m.	DOAP session, Small group discussion
At the end of the session the phase IV student must be able to Enumerate the indications of renal ultrasound 2. Describe the findings in renal ultrasound	30.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss the indications to perform arterial blood gas analysis( ABG) 2. Interpret the ABG data	27.03.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Discuss the indications for peripheral intravenous catheter 2. Insert a peripheral intravenous catheter	27.03.2023	2.30 to 4.30 p.m.	DOAP session, Bedside clinic
At the end of the session the phase IV student must be able to Describe and discuss the indications for central venous or a dialysis catheter 2. Demonstrate in a model the insertion of a central venous or a dialysis catheter 3. Assist in the insertion of a central venous or dialysis catheter.	27.03.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Communicate diagnosis plan to patients 2. Communicate treatment plan to patients 3. Communicate subsequent follow up plan to patients	03.04.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Describe renal diet and counsel patients on a renal diet	03.04.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Identify and describe the priorities in the management of ARF including diet , volume management , alteration in doses of drugs and monitoring 2. Identify and describe the indications for dialysis	16.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glyemic therapy,dyslipidemia,anemia,hyperkalemia,hyperphosphatemia,secondary hyperparathyroidism.	05.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the process of renal dialysis 2. Enlist the indication of dialysis 3. Enlist the complications of dialysis	06.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the indications of renal replacement therapy 2. Enlist the advantages of dialysis over renal replacement therapy 3. Discuss the complications of renal replacement	06.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss the ethical issues with renal replacement therapy 2. Describe the legal problems with renal replacement 3. Communication the issues to the patients attenders	08.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enlist the chronic complications of CKD 2. Complications of chronic dialysis 3. Describe the dietary advice to a CKD patient	08.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to 1. Able to discuss the necessity of different treatment modalities with patient 2. Incorporate patient view on CKD therapy	08.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion, Bedside clinic

**res that require certification : (02)**

At the end of the session the phase II student must be able to 1. Define diabetes mellitus 2. Classify diabetes mellitus	30.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1. Discuss the epidemiology of diabetes mellitus 2. Describe the pathogenesis of the diabetes mellitus 3. Risk factors of type 1 /2 diabetes 4. Discuss the course of illness and time of presentation of different types of diabetes mellitus	30.06.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion

At the end of the session the phase II student must be able to 1. Discuss the epidemiology of type 2 diabetes mellitus 2. Risk factors of type 2 diabetes 3. Discuss the economic burden of the type 2 diabetes 4. Describe the clinical evolution of type 2 diabetes mellitus	07.07.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the genetic background of the diabetes 2. Discuss the effects of environmental factors on diabetes mellitus	01.02.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the pathogenesis of diabetes mellitus 2. Enlist the microvascular and macrovascular complications of diabetes mellitus	15.03.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Describe the precipitants of acute diabetic emergencies 2. Recognise the signs of diabetic emergencies 3. Describe the management of diabetic emergencies	22.03.2022	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Enlist the risk factors of diabetes 2. Describe the importance of lifestyle history, nutritional history, family history in a case of diabetes mellitus. 3. Recognise the medications that cause hyperglycemia / poor diabetic control 4. Importance of co-morbid illness in diabetes mellitus 5. Enlist the end organ damage in diabetes mellitus	17.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Recognise common skin lesions associated with diabetes mellitus 2. Do detailed examination of peripheral pulses 3. Do examination of foot for diabetic foot deformity 4. Enlist/ recognise stages of diabetic retinopathy	17.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Enlist the acute emergencies in a diabetic patient 2. Describe the common presenting complaints of diabetic keto-acidosis 3. Describe the hypo-glycemic symptoms	17.03.2022	2.30 to 4.30 p.m.	Small group discussion, Lecture
At the end of the session the phase III student must be able to 1. Recognise the life threatening signs of acute diabetic emergencies 2. Prioritise patients based on clinical presentation 3. Enlist the etio-pathogenesis of symptoms of diabetic metabolic derangements	17.03.2022	2.30 to 4.30 p.m.	Small group discussion, Lecture
At the end of the session the phase III student must be able to 1. Describe the laboratory test for diagnosis of diabetes 2. Enlist the special tests to detect end organ involvement[eye/kidney/heart/vessels] 3. Describe the arterial blood gas features expected in a case of diabetic ketoacidosis.	24.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Perform the Capillary blood glucose test 2. Interpret the random CBG test 3. Describe the process of CBG measurement and precautions to be followed	24.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Do a dipstick ketone test 2. Interpret the severity of ketosis by dipstick test	24.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase III student must be able to 1. Recognise the signs of hypoglycaemia 2. Describe the most common causes of hypoglycaemia 3. Outline hypoglycaemia management	29.03.2022	8.30 to 9.30 a.m.	Small Group discussion, Lecture
At the end of the session the phase IV student must be able to 1. Enlist diabetic emergencies 2. Recognise the acute diabetic emergencies in casualty 3. Able to delineate the therapy for diabetic emergencies	22.02.2023	9.30 to 10.30 a.m.	Small Group discussion, Lecture
At the end of the session the phase IV student must be able to 1. Enlist different drug class for diabetes mellitus treatment 2. Enlist indications/ contraindications of diabetic drugs 3. Discuss the interactions of diabetic drugs	23.02.2023	9.30 to 10.30 a.m.	Small Group discussion, Lecture
At the end of the session the phase IV student must be able to 1. Outline the therapeutic approach to diabetes mellitus based on presentation 2. Discuss the difference in therapy based on severity 3. Discuss adverse reactions of anti diabetic therapy 4. Discuss the interaction of diabetic drug therapy	25.02.2023	9.30 to 10.30 a.m.	Small Group discussion, Lecture
At the end of the session the phase IV student must be able to 1. List the target organ damage in type 2 diabetes mellitus 2. Describe the drugs in the prevention and control of target organ damage in type 2 diabetes mellitus 3. Discuss the indications for the treatment of complications in type 2 diabetes mellitus 4. List the adverse reaction of anti diabetic drugs	01.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase III student must be able to 1. Demonstrate the correct technique to administer insulin 2. Counsel the patient about the need of insulin	31.03.2022	2.30 to 4.30 p.m.	DOAP session

At the end of the session the phase III student must be able to 1. Demonstrate the correct technique of self monitoring of blood glucose 2. Council the need of self monitoring of blood glucose	31.03.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase III student must be able to 1. Explain the therapy of diabetes mellitus 2. Discuss the selection of patients for the preference of treatment 3.Explain the importance of treatment of DM	31.03.2022	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. List the causes of hypoglycemia 2 .Explain the counter hormone response 3. Discuss the initial treatment 4 .List the counter hormones	02.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Define diabetic ketoacidosis 2.Explain the pathophysiology of DKA 3.Enumerate the clinical features of DKA 4.List 3 signs of DKA 5.Discuss the management of DKA	04.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Discuss hyperosmolar non ketotic coma 2.List the precipitating causes of HNKC 3.List the signs of HNKC 4.Explain the pathophysiology of HNKC 5.List 5 clinical features of HNKC 6.Discuss the stabilization and management of HNKC	08.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

es that require certification : (NIL)

At the end of the session the phase II student must be able to Explain the pathogenesis of thyroid disease 2.Discuss the epidemiology of hypothyroidism and hyperthyroidism 3.Explain the incidence of iodine deficiency 4.Explain the autoimmunity in the pathogenesis of thyroid disease	14.07.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to Discuss the genetic basis of thyroid dysfunction	21.07.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the physiology of hypothalamo-pituitary-thyroid axis 2. List the thyroid function test 3. Explain the alterations in physiological functions	09.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Describe the principles of radio iodine uptake in the diagnosis of thyroid disorder	11.03.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Formulate an appropriate history that will help in the diagnosis of the cause of thyroid dysfunction 2.Explain the severity of hype/hypothyroidism	10.03.2022	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1.Elicit and discuss about the history of thyroid disorder 2. Discuss the most diagnosis based on the clinical examination 3.Discuss the common symptoms of hypo and hyperthyroidism 4.Demonstrate the palpation of pulse rate and rhythm abnormalitie 5.Demonstrate the neck palpation and lymph nodes and thyroid 6.Discuss the symptoms and physical findings in the CVS	10.03.2022	2.30 to 4.30 p.m.	Bed side clinic, DOAP session
At the end of the session the phase IV student must be able to Demonstrate the correct technique to palpate the thyroid	10.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1.List the differential diagnosis based on the clinical presentation 2.Discuss the most likely diagnosis based on the clinical presentation	10.03.2022	2.30 to 4.30 p.m.	Bedside clinic, small group discussion
At the end of the session the phase IV student must be able to 1. Interpret the diagnostic testing based on the clinical diagnosis 2. Interpret the CBC,TFT,ECG and radio iodine uptake scan	10.03.2022	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Recognise the Atrial fibrillation , Pericardial effusion and bradycardia in ECG	10.03.2022	2.30 to 4.30 p.m.	Bedside clinic, lab
At the end of the session the phase IV student must be able to Interpret the thyroid function test in hyper/hypothyroid	10.04.2023	2.30 to 4.30 p.m.	Bedside clinic, lab
At the end of the session the phase IV student must be able to List the general prognosis in thyroid disorder	15.03.2023	9.30 to 10.30 a.m.	Lecture, Bedside clinic

At the end of the session the phase IV student must be able to List the drugs to treat the hypo/hyperthyroid 2.Discuss the pharmacology of thyroxine 3.Discuss the pharmacology of anti thyroid drugs 4.Explain the adverse reaction of anti thyroid drugs and thyroxine	08.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to .1. Design a prescription of treatment of hypo/hyperthyroid disorder based on age ,sex and clinical status 2.Explain the patient above and the treatment of hypo/hyperthyroidism	10.04.2023	2.30 to 4.30 p.m.	Skill assessment
At the end of the session the phase IV student must be able to 1. Define thyrotoxicosis 2.Discuss the indication of thionamide 3.Discuss the indication of surgery in thyroid disease 4.Explain the need of radio iodine in hyperthyroidism	10.04.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion

as that require certification : (NIL)

At the end of the session the phase IV student must be able to 1. List the common malignancies in India 2.Describe the epidemiology of malignancy in India 3. Discuss the inherited and modifiable risk factors of malignancy	12.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Describe the genetic basis of selected cancer	13.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the relation between infection and cancer 2.List some infection which produces cancer	13.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. List the drugs to treat the hypo/hyperthyroid Describe the natural history of common cancer 2.Discuss the presentation of common cancer 3.Discuss the cause of common cancer 4.Name some complication of cancer	15.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to .Describe the common disease encountered in patients at the end of life 2.Discuss the principle of malignancy	15.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Define curative care 2.Define palliative care 3. Define the difference between curative and palliative care	16.11.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Discuss the history and demonstrate the physical examination which will help to establish the etiology of cancer 2.List some appropriate risk factors 3.Calculate the duration and evaluation	20.11.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to List the drugs to treat the hypo/hyperthyroid 1.Demonstrate a physical examination , general and local examination 2.Explain how to exclude the diagnosis of cancer 3.Discuss the etiopathogenesis 4.List some complications of cancer	18.11.2023	8.30 to 9.30 a.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1. Demonstrate the correct technique of performing breast examination 2.Rectal examination 3.Cervical examination 4.Pap smear	20.11.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1.Name few differential diagnosis based on presenting symptoms and clinical examination 2.Summarise the presentation based on the most likely diagnosis	20.11.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able 1.List some diagnostic test 2. Interpret the diagnostic test based on CBC, stool occult blood and PSA	24.04.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able 1.Describe the indications of xray ,mammogram,biopsy and tumor markers 2.Interpret the uses of xrays,mammogram,tissue biopsy and tumor marker	24.04.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able 13 1.Describe the pain and suffering in a patient with cancer 2.Formulate a management plan to decrease the pain in the cancer patient	24.04.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to .Discuss the indications of surgery and chemotherapy in cancer patient 2.Name some chemotherapy agents used in malignancy	08.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1.Explain the need, tests involved in diagnosing malignancy 2.Explain the utility of tests in the prevention of cancer	08.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion

At the end of the session the phase IV student must be able to 1.Describe the need and preferences of patients when choosing curative and palliative therapy 2.Explain how to select the need of the treatment	08.05.2023	2.30 to 4.30 p.m.	Bedside clinic, small group discussion
At the end of the session the phase IV student must be able to 1.List the indications of narcotics in cancer patients 2.Enumerate the use of narcotics in pain alleviation in patients with cancer	08.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1.Describe the ethical issues 2.Describe the medico legal issues with cancer cases	08.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the therapies in alleviating suffering in patient at the end of life 2.Enumerate the suffering of patients with cancer at the end of life 3.Formulate a treatment plan to the patient at the end of his life	08.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion

es that require certification: ( NIL)

At the end of the session the phase II student must be able to 1. Define obesity 2.Describe the methods to assess obesity 3.Define obesity according to the indian population	28.07.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase II student must be able to 1.Describe the etiology of obesity 2.Define modifiable and non modifiable risk factors 3.Describe the various causes of obesity	28.07.2021	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Describe the pathogenesis of obesity	20.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Describe the environmental factors involve in obesity 2.Describe the early habits 3.Describe the food 4.Describe the work and physical activity on the incidence of obesity	20.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Describe the natural history of obesity 2.List some complication of obesity	22.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Describe an appropriate history including natural and dietary history 2.Define the modifiable risk factor 3.Describe the family history	15.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1.Demonstrate the physical exercise 2.Demonstrate the measurement of abdominal obesity 3.Discuss the signs 4.List the co morbidities	15.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1.Discuss the differential diagnosis of obesity	15.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1.List the lab diagnosis 2.Interpret the lab tests results	15.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab, Small group discussion
At the end of the session the phase IV student must be able to 1.List the lab tests of obesity 2.Name some lab test to diagnose the causes of obesity	22.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab, Small group discussion
At the end of the session the phase IV student must be able to 1.Formulate a plan of action to change the behavioral and dietary and lifestyle modification	22.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1.Demonstrate how the patients can adhere to life style modifications	22.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1.Discuss the pharmacotherapy of obesity 2.List some indication of pharmacotherapy of obesity 3.Discuss the adverse effects of anti obesity drugs	13.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Enumerate the indications of surgery 2.Describe the side effects of bariatric surgery	13.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Create a plan to provide healthy life style 2.Describe the methods to educate patient at the primary prevention of obesity 3.Formulate a plan to educate the health care methods	20.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

es that require certification : ( NIL)



At the end of the session the phase IV student must be able to 1.Describe the ethology or upper and lower GI bleeding 2.List some causes of GI bleeding	24.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Discuss about the stabilising of GI bleed 2. Explain how to assess the volume loss with GI bleed	24.05.2023	9.30 to 10.30 a.m.	DOAP session, Small group discussion, Lecture
At the end of the session the phase IV student must be able to 1.Discuss the physiological effects of acute blood loss	25.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Identify the score of bleed, quantity 2. Enumerate the facts which lead to bleeding in git 3.Discuss the etiology of GI bleed 4.Explain the comorbid conditions of Git bleeding	29.05.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1.Discuss the physical examination based on history 2. Demonstrate the methods to assess volume loss 3.Examine the abdomen and assess the physical findings	29.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to . 1.Discuss the etiology based upper and lower GI bleed	27.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1.Demonstrate the appropriate technique to perform anal and rectal examination	29.05.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1.Discuss the differential diagnosis of upper and lower GI bleed	29.05.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab

At the end of the session the phase IV student must be able to 1. Discuss the importance of laboratory test in the diagnosis	29.05.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session, Small group discussion
At the end of the session the phase IV student must be able to 1. List the indications of endoscopy and the procedure	31.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Explain the non pharmacological therapy in GI bleed 2. Enumerate the indications of blood products transfusion 3. List some specific scores to assess bleeding	31.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the indications of whole blood 2. Enumerate the indications of platelet transfusion 3. Discuss about mismatch transfusion	01.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Identify the blood products and observe the cross matched blood	05.06.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1. Enumerate the indications of pressure therapy in the treatment of GI bleeding 2. Discuss the pharmacotherapy of upper GI bleed 3. Discuss the side effects of pressure therapy in upper GI bleed	03.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the Helicobacter pylori 2. Indication of pharmacotherapy of acid peptic disease and H.pylori 3. Enumerate some side effects of pharmacotherapy of APD	03.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the indications of endoscopy 2. Enumerate the indications of surgery	07.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the various surgery	05.06.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to 1. Formulate some methods to counsel the family of patient	05.06.2023	2.30 to 4.30 p.m.	DOAP session

**res that require certification : (NIL)**

At the end of the session the phase IV student must be able to 1. Describe the aetiology of acute diarrhoea 2. Describe the aetiology of chronic diarrhoea? 3. Discuss the infectious and non infectious causes?	26.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the systemic consequences of diarrhoea? 2. Discuss about impact of fluid balance in diarrhea?	27.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe malabsorption? 2. Describe chronic effects of diarrhea?	27.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss about the history including natural history and diet history and sexual history? 2. Enumerate the concomitant illness?	12.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1. Demonstrate the physical examination? 2. Demonstrate the abdominal examination to assess the volume status of the disease?	12.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1. Define dysentery? 2. Define diarrhea? 3. Demonstrate how to distinguish between acute and chronic diarrhea?	29.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Based on the consistency, blood stain and number of episodes of diarrhoea classify the etiology	12.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab
At the end of the session the phase IV student must be able to 1. Interpret the lab tests and stool examination? 2. Discuss the methods in blood and stool examination to identify the causative organisms	12.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Skills lab, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the causes of parasitic diarrhea 2. Discuss the microscopic features of stool examination?	12.06.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Discuss vibrio cholera? 2. explain which is hanging drop species?	12.06.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Enumerate the indications to stool culture? 2. Enumerate the indication to blood culture with acute diarrhea?	03.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the indications to colonoscopy? 2. Enumerate the indications to antibiotics? 3. Enumerate the investigation? 4. Enumerate the risk in diagnosing chronic diarrhea?	03.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

At the end of the session the phase IV student must be able to 1. List the drugs used in acute and chronic diarrhea? 2. Enumerate the adverse effects of the drugs used in diarrhea? 3. Discuss the pharmacology and side effects of pharmacotherapy of parasitic causes of diarrhea?	04.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Indications ,pharmacology and side effects of bacterial diarrhea? 2. Indications, pharmacology and side effects of viral diarrhea?	04.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe chronic diarrhea? 2. Discuss ulcerative colitis? 3. Discuss the differences between crohn and ulcerative colitis?	06.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the indications of immunotherapy? 2. Pharmacology and pharmacotherapy for IBD? 3. Enumerate the adverse effects of pharmacotherapy of crohn and ulcerative colitis? 4. Enumerate the indication of surgery in IBD?	10.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the indications of surgery in inflammatory bowel disease 2. Discuss the surgeries and complications	10.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

res that require certification : (NIL)

At the end of the session the phase IV student must be able to 1. Definition of headache? 2. Discuss the classification of headache? 3. Presenting features of headache? 4. Precipitating features of headache? 5. List the aggravating factors of headache?	14.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. define aura? 2. Discuss the appropriate history of headache? 3. Discuss the aggravating factors of headache?	19.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the classification of migraine? 2. Discuss the aggravating classical and non-classical factors of headache? 3. Discuss the non-classical factors of headache?	19.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the neurological examination of headache? 2. Define ICT? 3. Define the neck rigidity?	19.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to Enumerate the differential diagnosis of headache?	19.06.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to 1. Interpretation of lab tests and examination of headache? 2. Describe the imaging technique in diagnosis of headache?	15.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to 1. Describe the pressure of cerebrospinal fluid? 2. Describe the finding in CSF in patients with meningitis? 3. List the parameters assess in the CSF?	26.06.2023	2.30 to 4.30 p.m.	Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to 1. Describe the lumbar puncture? 2. Describe the technique of LP? 3. Demonstrate the technique in measuring the CSF pressure?	26.06.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1. Interpretation of CSF finding?	26.06.2023	2.30 to 4.30 p.m.	Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to 1. Enumerate the indication of admission of patients with headache?	22.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Treatment of headache? 2. Describe the pharmacology therapy of headache? 3. Describe the dose , side effects and antibiotic therapy in migraine?	24.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the indication pharmacology therapy in migraine? 2. Discuss the side effects of therapy in migraine?	24.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the treatment regimen of tubercular etiology? 2. Describe the treatment regimen of bacterial meningitis? 3. Describe the treatment regimen of viral meningitis? 4. Describe the dose adverse effects of drugs of tuberculosis?	24.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the treatment of migraine? 2. Describe the need of prophylactic treatment of migraine?	26.06.2023	2.30 to 4.30 p.m.	DOAP session

es that require certification : (NIL)

At the end of the session the phase IV student must be able to 1. Describe the anatomy of brain? 2. Describe the functions and vascular supply of brain?	05.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Define cerebrovascular accident? 2. Describe the etiology of hemorrhagic and non-hemorrhagic stroke? 3. Enumerate the causes of hemorrhagic stroke?	05.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

At the end of the session the phase IV student must be able to 3 1. Enumerate the appropriate history at the time of presentation? 2 . Discuss onset, progression , precipitating and aggravating factors and associated risk factors which help to identify the cause of CVA?	21.08.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to Discuss the nature of CVA	21.08.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group discussion
At the end of the session the phase IV student must be able to Demonstrate the physical signs in the CVA patients including the general and central nervous system examination?	21.08.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1)Define upper motor neuron lesion? 2)Define lower motor neuron lesion? 3) Discuss the differences between upper and lower motor neuron lesion? 4)Discuss the probable nature of lesion?	28.08.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Discuss various disorder of speech? 2. Demonstrate the physical signs to identify the early speech disorder?	28.08.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1)Describe the bladder dysfunction seen in CVS disorder?	28.08.2023	2.30 to 4.30 p.m.	Small group discussion, Bedside clinic
At the end of the session the phase IV student must be able to List the imaging modalities used to identify the lesion?	28.08.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session, Small group discussion
At the end of the session the phase IV student must be able to Enumerate the cause of young stroke? Interpret the appropriate diagnostic tests in young patients with stroke?	10.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the treatment of CVA? 2) Discuss the supportive treatment of CVA?	12.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Enumerate the indication to the use of thrombolytic in patients with CVA? 2) Discuss the treatment of non hemorrhagic stroke?	17.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. Describe the role of antiplatelet therapy in CVA in non hemorrhagic stroke?	17.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the immediate management of stroke?	19.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 2)Enumerate the indication of surgery in patients with hemorrhagic stroke?	24.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1)Enumerate the multi disciplinary rehabilitation in pt with CVA?	26.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Discuss about the counselling of the patient and family in the diagnosis and treatment?	28.08.2023	2.30 to 4.30 p.m.	DOAP session

es that require certification : (NIL)

At the end of the session the phase IV student must be able to 1)Discuss the movement disorder? 2) Functional anatomy of the locomotor system of brain?	31.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to )Discuss the classification of movement disorder? 2)Discuss the disability, rehabilitation, repetitive by movement disorder?	31.08.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1)Describe the causes of movement disorder? 2) Describe the drug induced movement disorder? 3) Describe the precipitating and aggravating factors of movement disorder? 4) Discuss the associativesymptoms that help to identify the cause of movement disorder?	04.09.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1)Demonstrate the sites in the physical examination? 2) Demonstrate the general examination? 3) Demonstrate the neurological examination? 4)Discuss the standard movement rating scale?	04.09.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1) Discuss the definitive diagnosis of movement disorder?	04.09.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1)Discuss the clinical diagnosis based on anatomical location	04.09.2023	2.30 to 4.30 p.m.	Bedside clinic
At the end of the session the phase IV student must be able to 1)Discuss the diagnostic methods? 2)Discuss the interpretation of lab test including imaging?	04.09.2023	2.30 to 4.30 p.m.	Bedside clinic, Small group session
At the end of the session the phase IV student must be able to 1)Define parkinsonism disease? 2) Discuss the pharmacotherapy of parkinsonism disease? 3) Discuss the dose, side effects of drugs used in parkinsonism?	02.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to ) Eneurnate the indication of surgery of movement disorder? 2) Describe the use of botulism toxin in the treatment of movement disorder?	02.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

as that require certification : (NIL)

At the end of the session the phase IV student must be able to describe the snakes present in local by recognising their fang marks.	17.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
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At the end of the session the phase IV student must be able to 1) Display the correct initial management of snake bite in a volunteer or a mannequin. 2) Imitate and educate the other health care workers about the initial management of snake poisoning	11.09.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Should be able to explain the first aid given in a patient with snakebite. 2) Describe about transportation of the patient to specialist care centre.	17.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Delict and describe the local and systemic effects of information through clinical features.	11.09.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1) Observe and reproduce the documentation and presentation of general and local examination of cardiac and neurology case.	11.09.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1) Follow and show the whole blood clotting test (20 mins) 20WBCT to diagnose snake bite 2) Explain the other laboratory investigations in snake bite.	11.09.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to 1) Describe ASV and it's indications. 2) Explain the pharmacology of ASV including its dose adverse reactions.	17.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss scorpion sting with its clinical features. 2) Explain the management of scorpion sting.	18.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the clinical features and management of bee sting.	18.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion

**ures that require certification : (NIL)**

At the end of the session the phase IV student must be able to 1) List the methods to evaluate a case of poisoning. 2) Explain the general approach to stabilising a patient who presents with poisoning.	14.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the common plant poisons and its toxicology 2) Explain the clinical features, prognosis and approach to detoxification.	16.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the various corrosives agents available 2) Explain the clinical features and management of corrosive poisoning	16.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the common causes of drug overdose 2) Discuss the toxicology, clinical features and its management.	16.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Documenting function and role of poison centre in a suspected poisoning.	18.09.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Observe and follow the method of writing medico-legalreport in case of suicide it homicidal poisoning.	14.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion, DOAP session
At the end of the session the phase IV student must be able to 1) Communicate with family members suspected poisoning patient and explain and medicolegal aspects.	18.09.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to 1) Able to discuss the precaution to be taken in a patient suspected suicidal ideation gesture.	18.09.2023	2.30 to 4.30 p.m.	DOAP session

**res that require certification : (NIL)**

At the end of the session the phase IV student must be able to 1) List the causes of hypercalciemic 2) Explain the clinical features of hypercalciemic and distinguish the features of parathyroid diseases from other causes.	11.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1. What are the etiology of hyper parathyroidism 2. Clinical manifestations of hyper parathyroidism 3. What are the diagnostic parameters for primary hyperparathyroidism	13.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the investigations and treatment of hypercalciemic .	11.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the types of multiple endocrine neoplasia syndrome 2) Explain the genetic basis of MEN syndrome.	13.05.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the causes of hyponatremia. 2) Diagnose hyponatremia based on clinical features. 3) Explain the management of hyponatremia.	23.11.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the causes of hyponatremia 2) Diagnose hyponatremia based on clinical features and lab investigations 3) Explain the management of hyponatremia	23.11.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

At the end of the session the phase IV student must be able to 1) Discuss the causes of hypokalemic 2) Diagnose a case of hypokalemic through clinical features and lab investigations 3) Explain the management of hypokalemic	20.11.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the causes of hyperkalemic 2) Discuss the diagnosis of hyperkalemic based on clinical features and lab investigations 3) Explain the management of hyperkalemic	20.11.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the causes of metabolic acidosis 2) Explain the diagnosis of metabolic Acidosis and its management.	28.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the causes of metabolic alkalosis 2) Explain the diagnosis of metabolic alkalosis and its management.	28.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the causes of respiratory acidosis 2) Explain the diagnosis of respiratory acidosis through its clinical features 3) Explain the management of respiratory acidosis	29.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the causes of respiratory alkalosis 2) List the clinical features of respiratory alkalosis. 3) List the laboratory features of respiratory acidosis.	29.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the principal pattern of acid base disturbance based on ABG report 2) Observe and detect acid base disturbance in ABG report.	29.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

**res that require certification: (NIL)**

At the end of the session the phase IV student must be able to 1) Explain the clinical assessment and investigation of nutritional status of adult. 2) Describe the calculation of calorie requirement during illness.	21.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the factors affecting nutritional status in a hospitalised patients. 2) Describe the consequences of protein caloric malnutrition.	21.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List and discuss common vitamin deficiencies based on clinical manifestations 2) Explain the complications of vitamin deficiencies and it's management.	21.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the indicators and complications of enteral and parental nutrition.	05.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Observe and show the method of counselling a patient with illness on balanced diet in and simulated environment.	25.09.2023	2.30 to 4.30 p.m.	DOAP session

**res that require certification : (NIL)**

At the end of the session the phase IV student must be able to 1) Name the common diseases in elderly 2) Describe the geriatric diseases through its clinical presentation	01.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Observe and display the geriatric assessment	09.09.2023	8.30 to 9.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1) Define acute confusional states (delirium) 2) Discuss the diagnosis based on clinical features and assessment. 3) Explain the management	01.04.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to To define aetiopathogenesis, clinical presentation, acute case, stabilization and management and rehabilitation of vascular events in elderly.	08.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the aetiology and diagnose a case of depression through clinical presentation 2) Describe the management and rehabilitation of old age patient with depression.	08.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Define dementia and describe aetiology and subtypes if dementia 2) Explain the management and rehabilitation of dementia in an elderly patient.	10.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Enumerate it's etiopathogenesis, clinical presentation and personality changes in elderly. 2) To describe care, management and rehabilitation and personality changes in the elderly.	10.06.2023	9.30 to 10.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the diagnosis of osteoporosis through clinical manifestations. 2) List the causes of osteoporosis 3) Discuss the management of osteoporosis in elderly.	07.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

At the end of the session the phase IV student must be able to Explain the clinical presentation, aetiology and management of CVA in an elderly patient.	07.09.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the clinical prevention, aetiology and management of CVA in an elderly patient.	07.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the aetiology for surgery in an elderly patient. 2) Discuss the management and rehabilitation of elderly patient undergoing surgery.	07.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the aetiology and diagnosing and degenerative joint diseases in elderly patient. 2) Describe the management and rehabilitation of degenerative joint diseases.	09.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the risk factors for falls in an elderly patient 2) Explain the aetiopathogenesis, clinical presentation and management of fall.	09.10.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the causes, aetiopathogenesis of fractures in the elderly. 2) Explain the management of common fractures and rehabilitation in the elderly.	09.10.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the cause of disability in the elderly 2) Explain the clinical presentation management and rehabilitation in the elderly with visual loss.	12.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the causes of disability in the elderly 2) Explain the rehabilitation, assessment and management of disability in the elderly.	14.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the causes of hearing loss in the elderly 2) Explain the management of rehabilitation of hearing loss in the elderly	14.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the demographic changes in age if in various numbers and its impact on population.	16.10.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the social problems faced by an elderly patient and its impact on health	16.10.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Explain the social problems assessment in the elderly patients 2) Discuss the rehabilitation of an elderly patient with social problems	16.10.2023	2.30 to 4.30 p.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Describe the ethical issues in the care of the elderly	19.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) List the causes for nutritional deficiencies in the elderly 2) Explain the aetiopathogenesis assessment and management of nutritional disorders in the elderly	19.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion

**as that require certification : (NIL)**

At the end of the session the phase IV student must be able to 1) Explain the host pathogen in the action in case of zoonotic diseases and febrile infectious diseases.	26.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to 1) Discuss the clinical manifestation and list common cause of zoonotic diseases and non febrile infectious diseases	26.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Explain the clinical manifestations and pathophysiology of zoonotic and non febrile infectious diseases.	28.10.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Display history taking which includes risk factors and evaluation of zoonotic and non febrile infectious disease?	23.10.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Should be able to diagnose these by general and specific examination?	23.10.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Recognise the clinical features and make a differential diagnosis between the various causes?	23.10.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to 1. Discuss the clinical features and make a differential diagnosis? 2. Display the test needed to confirm the diagnosis?	04.11.2023	8.30 to 9.30 a.m.	Bedside clinic, Skill assessment
At the end of the session the phase IV student must be able to Explain the recent techniques available to diagnose the disease?	02.11.2023	8.30 to 9.30 a.m.	Lecture, Small group discussion
At the end of the session the phase IV student must be able to Observe and follow the correct technique of blood and sputum collection?	04.11.2023	8.30 to 9.30 a.m.	DOAP session

At the end of the session the phase IV student must be able to Demonstrate the appropriate diagnostic plan of these diseases?	21.10.2023	8.30 to 9.30 a.m.	Bedside clinic, Skill assessment
At the end of the session the phase IV student must be able to Construct an empirical treatment plan based on clinical features and immune status of patient?	30.10.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Observe and communicate the patient's relative about the diagnosis and treatment plan?	30.10.2023	2.30 to 4.30 p.m.	DOAP session
At the end of the session the phase IV student must be able to Communicate the family and patient on prevention of infectious disease?	30.10.2023	2.30 to 4.30 p.m.	DOAP session

**that require certification : (NIL)**

At the end of the session the phase II student must be able to Explain the professional qualities and role of physician?	03.03.2021	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase II student must be able to Discuss and express the commitments of physician?	03.03.2021	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase III student must be able to 1. Describe the role of non maleficence in patient care	17.03.2022	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase III student must be able to Explain the role of autonomy and its responsibility in patient care?	17.03.2022	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase III student must be able to Express the role of beneficence in patient care?	17.03.2022	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Summarise the role of physician in health care system?	17.04.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain the role of justice in patient care?	17.04.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Describe organ donation? Describe the socio economic, medicolegal and ethical issues in it?	17.04.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain the medicolegal issues relating to rights,equality and justice in health care?	17.04.2023	9.30 to 10.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Describe the confidentiality in patient care and relate to socio economic, medicolegal and ethical issues?	19.04.2023	9.30 to 10.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Discuss the patient rights and shared responsibility of a physician with respect to socio economic, medicolegal and ethical issues?	19.04.2023	9.30 to 10.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain advanced directive and surrogate decision making?	19.04.2023	9.30 to 10.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Illustrate decision making related to emergency care in patient who are not capable of giving consent?	22.05.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain the issues related to research in human subjects including the medicolegal and socio economic aspect?	22.05.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain the issues related to consent for surgical procedure in aspect of ethical and medicolegal aspect?	22.05.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Discuss the patient physician relationship?	22.05.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Illustrate physician role and responsibility to society and community?	22.05.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Describe the physician-industry relationship in various aspects like medicolegal and ethical aspects ?	28.06.2023	9.30 to 10.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Develop the ability to communicate the patient in respectful, non threatening, non judgmental and emphatic manner	28.06.2023	9.30 to 10.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Display the ability to work in team of peers and superior?	28.06.2023	9.30 to 10.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Show respect patients privacy?	28.06.2023	9.30 to 10.30 a.m.	Bedside clinic, DOAP session



At the end of the session the phase IV student must be able to Follow the ability to maintain confidentiality in patient care?	28.06.2023	9.30 to 10.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Develop a commitment to continued learning?	29.06.2023	9.30 to 10.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Show respect to patients, fellow team members, superiors and other health workers?	29.06.2023	9.30 to 10.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Display responsibility while working in health care system?	29.06.2023	9.30 to 10.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Create and design proper documentation in health care?	06.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Display personal grooming that is appropriate for health care responsibilities?	06.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Operate the information technology for patient care and continued learning?	06.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Observe and communicate to family about patients diagnostic and therapeutic options available?	06.11.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Follow and display the method of communication to terminally ill patient and family?	06.11.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Make appropriate help and consultation knowing the limitation?	11.11.2023	8.30 to 9.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Show respect to colleagues?	09.11.2023	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Locate the medical errors? Operate appropriately knowing the implications and procedures?	09.11.2023	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Demonstrate correct response in areas of conflict in patient care? Develop good relationship during such conflicts?	09.11.2023	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Display empathy in patient care?	11.11.2023	8.30 to 9.30 a.m.	Bedside clinic, DOAP session
At the end of the session the phase IV student must be able to Build a balance between personal and professional priorities?	09.11.2023	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Display appropriate management?	13.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Show the ability to form and function in professional network?	13.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explore pursue and seek career advancement?	13.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Display the ability to reduce the medical errors and risk management?	13.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Show commitment to learning	13.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain various issues relating to in vitro fertilisation, insemination and surrogate motherhood?	27.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to 1. Discuss the medicolegal and socio economic issues in invitro fertilisation donor insemination and surrogate motherhood 2. Discuss the ethical issues in invitro fertilisation donor insemination and surrogate motherhood.	27.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Discuss the issues related to medical negligence?	27.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Define and discuss issues related to malpractice?	27.11.2023	2.30 to 4.30 p.m.	Small group discussion
At the end of the session the phase IV student must be able to Explain the issues in dealing with impaired physician?	30.11.2023	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Discuss the issues in dealing withdrawal of life support and refusal of care in appropriate cases?	30.11.2023	8.30 to 9.30 a.m.	Small group discussion
At the end of the session the phase IV student must be able to Follow and perform altruism in appropriate situation?	30.11.2023	8.30 to 9.30 a.m.	Small group discussion

At the end of the session the phase IV student must be able to Design and reproduce the correct method of enrolling a patient in research in simulated environment?	27.11.2023	2.30 to 4.30 p.m.	Bedside clinic, DOAP session
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SH - Shows how, P- performs independently, Column F: DOAP session – Demonstrate, Observe, Assess, Perform.

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			Practical, Lecture, Small group discussion, DOAP session
			Practical, Lecture, Small group discussion, DOAP session
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			<b>Suggested Learning methods</b>
			Lecture
			Practical, Lecture
			Practical, Lecture, Small group discussion, DOAP session
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			<b>Suggested Learning methods</b>
			Practical, Lecture, Small group discussion, DOAP session

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			Practical, Lecture, Small group discussion, DOAP session
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			DOAP sessions
			<b>Suggested Learning methods</b>
			DOAP sessions, Computer assisted learning methods
			Lecture, Small group discussion

			DOAP sessions
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			Lecture, Small group discussion, DOAP sessions
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			DOAP sessions
			Skill station
			Skill Lab
			<b>Suggested Learning methods</b>
			Skill station
			Small group discussion
			Small group discussion

			Lecture, Small group discussion
			Lecture, Small group discussion, DOAP session
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			<b>Suggested Learning methods</b>
			Small group discussion, Lecture, DOAP sessions
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			Lecture, Small group discussion, Bed side clinic, DOAP session
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			Lecture, Small group discussion, Bed side clinic, DOAP session
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			Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session
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			<b>Suggested Learning methods</b>
			Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session

			Lecture, Small group discussion, Bed side clinic, Autopsy, DOAP session
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			Bedside clinic (ward/casualty), Small group discussion
			Bedside clinic, Small group discussion/DOAP session

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			Lecture, Small group discussion
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			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			<b>Suggested Learning methods</b>
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion

			DOAP session
			DOAP session
			Lecture, Small group discussion
			DOAP session, Bedside clinic
			DOAP session, Bedside clinic
			<b>Suggested Learning methods</b>
			DOAP session, Bedside clinic
			DOAP session, Bedside clinic



			Lecture, Small group discussion, DOAP session
			Lecture, Small group discussion
			Lecture, Small group discussion DOAP session
			Lecture, Small group discussion DOAP session
			Lecture, Small group discussion, DOAP session
			Lecture, Small group discussion, DOAP session
			Lecture, Small group discussion, DOAP session

			Lecture, Small group discussion, Demonstration
			<b>Suggested Learning methods</b>

			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion

			Lecture, Small group discussion
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			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Bedside clinic, DOAP session
			Bedside clinic, DOAP session
			Lecture, Small group discussion
			<b>Suggested Learning methods</b>
			Lecture, Small group discussion
			Lecture, Small group discussion

			Bedside clinic, DOAP session
			Bedside clinic, DOAP session
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture Small group discussion
			Bedside clinic, DOAP session
			Bedside clinic, DOAP session
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			<b>Suggested Learning methods</b>
			Bedside clinic, DOAP session

**Obstetrics & Gynaecology**

			Lecture, Small group discussion, Bedside clinics
			Lecture, Small group discussion, Bedside clinics
			Lecture, Small group discussion, Bedside clinics
			Lecture, Small group discussion, Bedside clinics
			Lecture, Small group discussion, Bedside clinics
			Lecture, Small group discussion, Bedside clinics
			Lecture, Small group discussion, Bedside clinics

			<b>Suggested Learning methods</b>
			Lecture, Small group discussion
			Bedside clinics, Skills lab

			Lecture, Small group discussion
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**General Surgery**

			Lecture, Small group discussion
			Lecture, Small group discussion

**Orthopaedics**

			Lecture, Small group Discussion, Bedside clinic
			Lecture Small Group discussion, case discussion

			Lecture, Small group discussion
			Lecture, Small group discussion
			<b>Suggested Learning methods</b>
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			DOAP session, Bedside clinic
			Bedside clinic
			Lecture, Small group discussion
			Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			<b>Suggested Learning methods</b>
			Lecture, Small group discussion
			Lecture, Small group discussion

			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group discussion
			Lecture, Small group

			Lecture
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Skill assessment			
Skill assessment			
Skill assessment	3		
Skill assessment		Radiodiagnosis	
Written/ Skill assessment			
Skill assessment			
Skill assessment		Microbiology	
Skill assessment			
Viva voce/written		Pharmacology	
Viva voce/written			
Bedside clinic/ Skill assessment/written			
Written		Microbiology, Pharmacology	
Bedside clinic/ Skill assessment/written			
Skill assessment/ written			
Log book documentation of completion		Pharmacology	
Written/ Viva voce		Pathology, Physiology, Community Medicine	

Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce		Physiology, Biochemistry	
Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce		Pathology	
Skill assessment			
Skill assessment			
Skill assessment			
Skill assessment			
Skill assessment	3		
Skill assessment			
Skill assessment		Biochemistry	
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce		Pharmacology	
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce		Pharmacology, Biochemistry	
Written/ Viva voce			
Written/ Viva voce		Pharmacology	
NA			
Skill assessment	1		

Written/ Viva voce		Pharmacology	
Skill assessment		AETCOM	

Short note/ Viva voce		Human Anatomy, Pathology, Microbiology	
Short note/ Viva voce		Microbiology	
Short note/ Viva voce		Pathology, Microbiology	
Skill assessment			
Skill assessment			
Skill assessment			
Skill assessment		Radiodiagnosis, Microbiology	
Skill assessment			
Skill assessment			
Skill assessment		Microbiology	
Skill assessment		Radiodiagnosis, Microbiology	
Skill Assessment/ Written/ Viva voce		Pharmacology, Microbiology	
Skill assessment/ Written/ Viva voce		Pharmacology, Microbiology	
Skill assessment		Microbiology	
Short note/ Viva voce			
Short note/ Viva voce			
Short note/ Viva voce			
Skill assessment			
Short note/ Viva voce		Microbiology	



Written		Microbiology	
Written		Microbiology	
Written		Microbiology, Community Medicine	
Written		Microbiology	
Written		Pathology, Microbiology	
Written		Microbiology	
Written			
Written		Microbiology	
Skill assessment		Microbiology	
Skill assessment			
Written/ Viva voce			

Skill assessment		Pathology, Microbiology	
Log book/ documentation		Microbiology	
Log book/ documentation		Microbiology	
Log book/ documentation/ Skill assessment		Microbiology	
Written		Pathology	
Log book/ documentation/ DOAP session		Pathology	
Written/ Viva voce			
Log book/ documentation		Microbiology	
Log book/ documentation		Microbiology	
Skill assessment			
Written/ Viva voce		Pharmacology	
Skill assessment		Microbiology, Pharmacology	

Skill assessment			
Skill assessment		AETCOM	
Skill assessment		Microbiology, Pharmacology	

Written/Viva voce		Pathology, Physiology	
Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology, Microbiology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology, Pharmacology	
Written/ Viva voce		General Surgery	
Skill assessment			
Skill assessment			

Skill assessment/ Viva voce			
Skill assessment		Pathology	
Viva voce/ Written		Radiodiagnosis	General Surgery
Viva voce/ Written		Pathology, Microbiology	
documentation in log book			
Skill assessment/ Written/ Viva voce		Pharmacology	General Surgery
Written/ Viva voce		Microbiology	
Written/ Viva voce			General Surgery

Short note/ Viva voce		Microbiology	
Short notes/ Viva voce		Microbiology	
Short notes/ Viva voce		Microbiology	
Short notes/ Viva voce		Microbiology	
Short notes/ Viva voce		Pathology, Microbiology	
Short notes/ Viva voce		Pathology, Microbiology	
Skill assessment			
Skill assessment			
Written/ Skill assessment		Pathology, Microbiology	
Written/ Skill assessment			

Written/ Viva voce		Radiodiagnosis	
Written/ Skill assessment			
Written/ Viva voce		Pharmacology, Microbiology	
Skill assessment		Microbiology	
Skill assessment		Microbiology	
Written/ Viva voce		Microbiology, Pharmacology	
Written/ Viva voce		Microbiology, Pharmacology	
Written/ Viva voce		Pathology, Microbiology	
Skills assessment		AETCOM	
Skills assessment		AETCOM	
Skills assessment		AETCOM	
Viva voce/ Written/ Skill Assessment		AETCOM	
observation by teacher		AETCOM	

Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce			
Written/ Viva voce			Orthopedics
Written/ Viva voce			Orthopedics
Written/ Viva voce			Orthopedics
Written/ Viva voce			Orthopedics

Written/ Viva voce			Orthopedics
Written/ Viva voce			Orthopedics
Written/ Viva voce			
Skill assessment			
Skill assessment			Orthopedics
Skill assessment/ Written			
Skill assessment/ Written			
Skill assessment/ Written		Pathology	
Written/ Viva voce			Orthopedics
Skill assessment/ Written		Radiodiagnosis	Orthopedics
Skill assessment/ Written			
Skill assessment/ Written			
Skill assessment/ Written		Pharmacology	Orthopedics
Skill assessment/ Written		Pharmacology	
Skill assessment/ Written		Pharmacology	
Skill assessment/ Written		Pharmacology	
Skill assessment		AETCOM	
Skill assessment			

Skill assessment			
Viva voce			
Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce			
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Skill assessment			
Skill assessment			
Skill assessment			
Skill assessment/ Written/ Viva voce			
Skill assessment/ Written/ Viva voce			
Written/ Viva voce		Pharmacology	
Skill assessment/ Written		Pharmacology	
Skill assessment			
documentation in log book/ skills station			
Skill assessment			

observation by faculty			
Written/ Viva voce			

Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Skill assessment			
Skill assessment			
Skill assessment/ Written		Pathology	
Skill assessment/ Written		Pathology	
Written/ Viva voce/ Skill assessment		Pathology	
Written/ Viva voce/ Skill assessment		Pathology	
Skill assessment/ Written		Pathology	
Skill assessment/ Written		Pathology	
Written/ Viva voce/ Skill assessment		Pathology	
Written/ Viva voce/ Skill assessment		Pathology	
Skill assessment/ Written		Pharmacology	
Written/ Viva voce		Pharmacology, Community Medicine	
Skill assessment			
Skill assessment			
Written/ Viva voce/ Skill assessment		Pathology	



Written/ Viva voce/ Skill assessment			
document in log book			
Skill assessment			
Written			

Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Written/ Viva voce		Pathology	
Skill assessment			
Skill assessment			

Skill assessment/ Written/ Viva voce			
Skill assessment/ Written/ Viva voce			
Skill assessment/ Written/ Viva voce		Pathology	
Skill assessment/ Written/ Viva voce		Pathology	
Skill assessment/ Written/ Viva voce			
Written/ Viva voce		Radiodiagnosis	
documentation in log book			
documentation in logbook			
Skill assessment with model			
Skill assessment			
Skill assessment			
Written/ Viva voce		Pharmacology	
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
observation by faculty			
observation by faculty			
Written/ Viva voce			
Written/ Viva voce		Pathology	

Written/ Viva voce		Pathology	
Written/ Viva voce			
Written/ Viva voce		Pathology	
Written/ Viva voce			
Skill assessment			
Skill assessment			
Written/ Viva voce			
Written/ Viva voce			
Skill assessment		Pathology	
Skill assessment	2	Pathology, Biochemistry	
Skill assessment	2	Pathology, Biochemistry	
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce		Pharmacology	
Written/ Viva voce			
Written/ Viva voce		Pharmacology	
Skill assessment		Pharmacology	

Skill assessment			
faculty observation			
Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce			
Written/ Viva voce			

Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce			
Short notes		Pathology, Physiology	
Short notes/ Viva voce			
Skill assessment/ Short case			
Skill assessment			General Surgery
Skill assessment			General Surgery
Short case			General Surgery
Skill assessment			General Surgery
Skill assessment			General Surgery
Skill assessment			General Surgery
Short note		Community Medicine	

Viva voce/ Short note		Pharmacology	General Surgery
Skill assessment		Pharmacology	
Short note/ Viva voce		Pharmacology	General Surgery

Short note/ Viva voce		Pathology, Biochemistry	
Short note/ Viva voce		Pathology	
Short note/ Viva voce		Pathology, Microbiology	
Short note/ Viva voce		Pathology	
Short note/ Viva voce			
Short note/ Viva voce		Pharmacology	
Skill assessment/ Short case			General Surgery
Skill assessment/ short case			General Surgery
Skill assessment/ Short case		Human Anatomy	General Surgery
Skill assessment/ Short case			General Surgery
Skill assessment/ Short case			
Short note/ Viva voce		Radiodiagnosis	
Short note/ Viva voce		Pharmacology	General Surgery
Short note/ Viva voce		Pharmacology	General Surgery
Short note/ Viva voce		Pathology	

Short note/ Viva voce		AETCOM	
Short note/ Viva voce		Pharmacology	Anesthesiology
Short note/ Viva voce		AETCOM	
Short note/ Viva voce		AETCOM	

Short note/ Viva voce			
Short note/ Viva voce		Pathology	
Short note/ Viva voce		Pathology	
Short note/ Viva voce		Pathology, Community Medicine	
Short note/ Viva voce		Pathology	
Skill assessment			
Skill assessment			
Skill assessment/ Short note/ Viva voce			
Skill assessment/ Short note/ Viva voce			
Skill assessment/ Short note/ Viva voce			
Skill assessment			
Skill assessment			
Short note/ Viva voce		Pharmacology	
Short note/ Viva voce			General Surgery
Short note/ Viva voce			

Short note/ Viva voce		Pathology	General Surgery
Written/ Viva voce/ Skill assessment		Pathology	General Surgery
Short note/ Viva voce		Pathology, Physiology	General Surgery
Skill assessment			General Surgery
Skill assessment			General Surgery
Short note/ Viva voce			General Surgery
Skill assessment			General Surgery
Skill assessment/ Short note/ Viva voce			General Surgery

Skill assessment/ Short note/ Viva voce		Pathology	General Surgery
Written/ Viva voce			General Surgery
Short note/ Viva voce		Pathology	General Surgery
Short note/ Viva voce		Pathology	General Surgery
Short note/ Viva voce/ Skill assessment		Pathology	General Surgery
Short note/Viva voce		Pharmacology	General Surgery
Short note/ Viva voce		Pharmacology, Microbiology	General Surgery
Short note/ Viva voce			General Surgery
			General Surgery
Skill assessment			General Surgery

Short note/ Viva voce		Microbiology	
Short note/ Viva voce			
Short note/ Viva voce			
Skill assessment		Microbiology, Pathology	
Skill assessment			
Short note/ Viva voce			
Skill assessment/ short note/ Viva voce			
Skill assessment/ Short note/ Viva voce		Microbiology, Pathology	
Skill assessment		Microbiology	
Skill Assessment		Microbiology	
Written/ Viva voce		Microbiology	
Written/ Viva voce		Pathology	General Surgery



Short note/ Viva voce		Pharmacology, Microbiology	
Short note/ Viva voce		Pharmacology, Microbiology	
Short note/ Viva voce		Pathology	General Surgery
Short note/ Viva voce		Pharmacology	
Short note/ Viva voce			General Surgery

Short note/ Viva voce		Human Anatomy	
Bedside clinic/ Skill assessment			
Bedside clinic/ Skill assessment			
Bedside clinic/ Skill assessment			
Bedside clinic/ skill assessment			
Skill Assessment			
Skill Assessment		Microbiology, Pathology	
Skill assessment		Microbiology, Pathology	
Skill assessment		Microbiology, Pathology	
Written/ Viva voce			
Written/ Viva voce		Pharmacology	
Written/ Viva voce		Pharmacology	
Written/ Viva voce		Pharmacology	
Skill Assessment		Pharmacology	Psychiatry

Written/ Viva voce		Human Anatomy	
Written/ Viva voce		Pathology	

Skill assessment		Pathology	
Skill Assessment			
Skill Assessment			
Skill Assessment		Physiology	
Skill Assessment		Physiology	
Written/ Viva voce		Physiology	
Written/ Viva voce/ Skill assessment		Radiodiagnosis	
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			General Surgery
Written/ Viva voce			Physical Medicine & Rehabilitation
Skill assessment			

Written/ Viva voce		Human Anatomy, Physiology	
Written/ Viva voce			
Skill assessment			
Skill assessment			
Skill assessment			
Skill assessment			
Skill assessment/ Written/ Viva voce		Radiodiagnosis	
Written/ Viva voce		Pharmacology	
Written/ Viva voce		Pharmacology	General Surgery

Written/ Viva voce		Forensic Medicine, Pharmacology	
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Skill assessment/ Written/ Viva voce		Forensic Medicine	
Written/ Viva voce		Forensic Medicine	
Skill assessment		Forensic Medicine	
Skill assessment			
Written/ Viva voce			
Written/ Viva voce		Pharmacology	
Written/ Viva voce		Pharmacology	
Written/ Viva voce		Pharmacology	

Written/ Viva voce		Pharmacology	
Written/ Viva voce		Forensic Medicine, Pharmacology	
Written/ Viva voce		Forensic Medicine, Pharmacology	
Written/ Viva voce		Forensic Medicine, Pharmacology	
document in log book		Forensic Medicine, Pharmacology	
Written/ Viva voce/ Skill assessment		Forensic Medicine, Pharmacology	
Skill assessment		Forensic Medicine, Pharmacology	
Skill assessment		Forensic Medicine, Psychiatry	

Written/ Viva voce		Pathology, Physiology	
Written/ Viva voce		Pathology	General Surgery
Written/ Viva voce		Pharmacology	
Written/ Viva voce		Pathology	
Written/ Viva voce			
Written/ Viva voce			

Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce		Physiology	
Written/ Viva voce		Physiology	
Written/ Viva voce		Physiology	
Written/ Viva voce		Physiology	
Written/ Viva voce		Physiology	

Written/ Viva voce		Physiology, Biochemistry	Pediatrics
Written/ Viva voce		Physiology, Biochemistry	Pediatrics
Written/ Viva voce		Physiology, Biochemistry	Pediatrics
Written/ Viva voce		Physiology, Biochemistry	Pediatrics
Skill assessment			

Written/ Viva voce			
Skill assessment		Psychiatry	
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			Psychiatry
Written/ Viva voce			AETCOM
Written/ Viva voce			Psychiatry
Written/ Viva voce			

Written/ Viva voce			
Written/ Viva voce			Respiratory Medicine
Written/ Viva voce			Anesthesiology, General Surgery
Written/ Viva voce			Orthopedics
Written/ Viva voce			Orthopedics, Physical Medicine & Rehabilitation
Written/ Viva voce			Orthopedics
Written/ Viva voce			Ophthalmology
Written/ Viva voce			Orthopedics, Physical Medicine & Rehabilitation
Written/ Viva voce			ENT
Written/ Viva voce		Community Medicine	
Written/ Viva voce			Psychiatry
Written/ Viva voce			
Written/ Viva voce			AETCOM
Written/ Viva voce		Physiology, Biochemistry	

Written		Microbiology, Community Medicine	
Written		Microbiology, Community Medicine	
Written		Microbiology	
Skill assessment		Community Medicine	
Skill assessment			
Written/ Viva voce			
Skill assessment		Pathology, Microbiology	
Written/ Viva voce			
Log book documentation		Microbiology	

Skill assessment			
Skill assessment		Microbiology, Pharmacology	
Skill assessment		AETCOM	
Skill assessment		Community Medicine, General Medicine	

Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Written/ Viva voce			
Skill assessment			
Skill assessment			
Skill assessment			



Written/ Viva voce			
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Written/ Viva voce		General Medicine	Physiology
Written		General Medicine	Physiology
Written/ Viva voce		General Medicine	
Viva voce/ Skill assessment		General Medicine	
Viva voce/ Skill assessment		General Medicine, General Surgery	
Written/ Viva voce		General Medicine	Physiology
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written		General Medicine	Physiology
Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce/ Skill assessment		General Medicine	Physiology
Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce		General Medicine, Pediatrics	Physiology
Written/ Viva voce		General Medicine, Pediatrics	Physiology
Written/ Viva voce		Radiodiagnosis, General Medicine	
Written/ Viva voce		Radiodiagnosis, General Medicine	
Viva voce/ Skill assessment		General Medicine, Pediatrics	Physiology
Written		General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce/ Skill assessment		General Medicine	



Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce		General Medicine	Physiology
Written		General Medicine	Physiology
Written		General Medicine	Physiology
Written		General Medicine	Physiology
Written		General Medicine	Physiology
Written/ Viva voce/ Skill assessment		General Medicine	Physiology
Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce/ Skill assessment		General Medicine	Physiology
Written		General Medicine, Pediatrics	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written		General Medicine, Pediatrics	
Written		General Medicine	
Written		General Medicine, Pediatrics	

Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Human Anatomy
Practical/ Viva voce		General Medicine	Biochemistry
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Human Anatomy
Written/ Viva voce		General Medicine	
Practical/OSPE/Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Practical/OSPE/Viva voce		General Medicine	
Written/Viva voce		General Medicine	

OSCE		General Medicine Anaesthesiology	
Written/ Viva voce		Pathology, General Medicine	
Written/ Viva voce		Pathology, General Medicine	
Written/ Viva voce		Pathology, General Medicine	
Written/ Viva voce		Pathology, General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		Pathology, General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Viva voce/ Skill assessment		Pathology, General Medicine	Physiology
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Physiology

Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Physiology
Written/ Viva voce		General Medicine	
Written/ Viva voce		Pathology, General Medicine	Physiology
Written/ Viva voce		Pathology, General Medicine	Physiology
Written/ Viva voce		Pathology, General Medicine	Physiology, Human Anatomy
Written/ Viva voce		Pathology, General Medicine	Physiology, Human Anatomy
Written/ Viva voce		Pathology, General Medicine	Physiology, Human Anatomy
Written/ Viva voce		Pediatrics, General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine, Pathology	
Written/ Viva voce		General Medicine, Pediatrics, Pathology	
Written/ Viva voce		General Medicine, Pediatrics, Pathology	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Pathology	
Written/ Viva voce		Community Medicine, General Medicine, Pediatrics	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Pathology	Physiology
Skill assessment	1	General Medicine	Physiology
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine Pathology	



Written/ Viva voce		General Medicine	
Written/ Viva voce		Biochemistry, General Medicine	
Written/ Viva voce		Biochemistry, General Medicine	
Written/ Viva voce		Biochemistry, General Medicine	
Written/ Viva voce		Biochemistry, General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Surgery, General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Surgery, General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		Biochemistry, General Medicine	
Written/ Viva voce		General Medicine, General Surgery	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, General Surgery	
Written/ Viva voce		General Medicine, General Surgery	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Skill assessment	1	General Medicine	
Written/ Viva voce		General Medicine	Microbiology
Written/ Viva voce		General Medicine	Microbiology

Written/ Viva voce		Physiology, General Medicine	Microbiology
Written/ Viva voce		General Medicine	Microbiology
Written/ Viva voce		General Medicine, Community Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Community Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine, Physiology	
Written/ Viva voce		General Medicine	Microbiology
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Microbiology
Written/ Viva voce		General Medicine	
Skill Assessment		Physiology, General Medicine	
Written/ Viva voce		General Medicine, Physiology	
Written/ Viva voce		General Medicine	Microbiology
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		General Medicine	

Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Pediatrics	
Written/ Viva voce		General Medicine	
Written/ Viva voce		Pediatrics, General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		Human Anatomy, Physiology, General Medicine, General Surgery	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Human Anatomy, Physiology, General Medicine, General Surgery	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Microbiology
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Skill Assessment	1	General Medicine	Microbiology
Written/ Viva voce		General Medicine	Pathology
Written/ Viva voce		General Medicine	Pathology

Skill assessment		General Medicine	Pathology
Written/ Viva voce		General Medicine	Pathology
Written/ Viva voce		General Medicine	Pathology
Skill assessment		General Medicine	
Written/ Viva voce		General Medicine	Pathology
Written/ Viva voce		General Medicine, Paediatrics	Pathology
Skill assessment		General Medicine, Paediatrics	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	Pharmacology, Pathology
Skill assessment		General Medicine	Pathology
Written/ Viva voce		General Medicine	Pharmacology
Written/ Viva voce		General Medicine	Pharmacology, Pathology
Written/ Viva voce		General Medicine	Pathology
Written/ Viva voce/ OSPE		General Medicine	Pathology
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Paediatrics	Pathology
Written/ Viva voce		General Medicine, Paediatrics	Pathology
Skill assessment		General Medicine, Paediatrics	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Skill assessment	3	General Medicine	
Skill assessment	3	General Medicine	
Written/ Viva voce		General Medicine	



Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Pathology
Written		General Medicine	Pathology
Written/ Viva voce		General Medicine, Community Medicine	
Written/ Viva voce		General Medicine, Community Medicine	

Written/ Viva voce		Pediatrics, General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		Physiology, General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	Pathology
Written/ Viva voce		General Medicine	Pathology
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	

Written/ Viva voce		General Medicine, Physiology	Pharmacology
Written/ Viva voce		General Medicine	Pathology, Pharmacology
Written/ Viva voce		General Medicine Pediatrics	Microbiology, Pharmacology
Written/ Viva voce		General Medicine	Microbiology
Written/ Viva voce		General Medicine	
Skills assessment		Pediatrics, Pharmacology	
Skill station	5	General Medicine	
Maintenance of log book/ Skill station	3	General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Maintenance of log book	3	General Medicine	
Skill station		General Medicine	
Short note/ Viva voce		General Medicine	

Written/ Viva voce		General Medicine, ENT	
Written/ Viva voce		Microbiology, General Medicine, Pediatrics	
Written/ Viva voce		General Medicine, Pediatrics	
Skill Assessment		General Medicine, Pediatrics	
Written/ Viva voce		General Medicine, Pediatrics	
Skill Assessment		General Medicine, Pediatrics	
Written / Viva voce		General Medicine, Pediatrics	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce/ Skill Assessment		General Medicine, Pediatrics	
Written/ Viva voce/ Skill Assessment		General Medicine, Pediatrics	

Written/ Viva voce/ Skill Assessment		General Medicine, Pediatrics	
Written/ Viva voce/ Skill Assessment		General Medicine, Pediatrics	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Skill assessment		General Medicine	
Written / Viva voce		General Medicine	
Written/ Skill assessment		General Medicine	
Written/ Skill assessment		General Medicine	Microbiology
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Pediatrics	Microbiology Pathology
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine, Pediatrics	
Written/ Viva voce		General Medicine, Pediatrics	
Written / Viva voce		General Medicine, Pediatrics	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Surgery, General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		General Surgery, General Medicine	
Written / Viva voce		General Surgery, General Medicine	

Written / Viva voce		General Surgery, General Medicine	
Written/ Viva voce		Radiodiagnosis, General Surgery, General Medicine, Pediatrics	
Written/Viva voce		General Medicine, AETCOM	
Written/ Viva voce		Obstetrics & Gynaecology, General Medicine	
Written/Viva voce		Psychiatry, General Medicine	
Written/Viva voce/OSCE		Pharmacology	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/Viva voce/OSCE		Pharmacology, General Medicine	
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce/ OSCE		Pharmacology, General Medicine	

Written/ Viva voce/ OSCE		Pharmacology, General Medicine	
Written/Viva voce		General Medicine	
Written/Viva voce		General Medicine	
Written/Viva voce		General Medicine	
Logbook Skill station/Viva voce/ OSCE		General Medicine	
Skill lab/Viva voce		General Medicine	

<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written /Viva voce		General Medicine	Microbiology, Community Medicine
Bedside clinic session/ Skill assessment		General Medicine	
Written /Viva voce		General Medicine	Pharmacology
Written /Viva voce		General Medicine	Pharmacology, Community Medicine
Written /Viva voce		General Medicine	Pharmacology, Community Medicine
Written / Viva voce		General Medicine	Pharmacology, Psychiatry
Skill assessment		General Medicine	Microbiology
Written /Viva voce		General Medicine	Pharmacology, Microbiology
Written /Viva voce		General Medicine	
Skill assessment		General Medicine	
Written /Viva voce		General Medicine	Microbiology
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Skill assessment		General Medicine	Microbiology

Written /Viva voce		General Medicine	Pharmacology, Microbiology
Written /Viva voce		General Medicine	
Written /Viva voce		General Medicine	
Written /Viva voce		General Medicine	Microbiology
Skill assessment		General Medicine	Microbiology
Written / Viva voce		General Medicine	Pharmacology, Microbiology
Skill assessment		General Medicine	Pathology, Microbiology
Skill assessment		General Medicine	Pathology
Skill assessment		General Medicine	Pathology
Skill assessment/ Viva voce		General Medicine, Pediatrics, Biochemistry	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/Viva voce		General Medicine, Pediatrics, Biochemistry	
Written/Viva voce		General Medicine, Pediatrics, Biochemistry	
Written/Viva voce		General Medicine, Pediatrics, Biochemistry	
Written/Viva voce		General Medicine	
Written/Viva voce		General Medicine	

Skill assessment		General Medicine, Pediatrics	
Skill assessment		General Medicine	
Written/ Viva voce			General Surgery, General Medicine
Skill station			General Surgery, General Medicine
Skill station			General Surgery, General Medicine
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Skill station			General Surgery, General Medicine
Skill station			General Surgery, General Medicine

Written/ Viva voce			General Medicine
Written/ Viva voce		Physiology	General Medicine
Written/ Viva voce		Physiology	General Medicine
Written/ Viva voce			General Medicine
Written/ Viva voce		Pharmacology	General Medicine
Written/ Viva voce		Pharmacology	General Medicine
Written/ Viva voce		Pharmacology	General Medicine

Written/ Viva voce/ Skill assessment		General Medicine	
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>

Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	
Written/ Viva voce		General Medicine	

Written/ Viva voce		Microbiology, General Medicine	
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Written/ Viva voce			General Medicine
Written/ Viva voce			General Medicine
Lecture/ Small group discussion			General Medicine
Skill assessment			General Medicine
Skill assessment			General Medicine
Written/ Viva voce		Pharmacology	General Medicine
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		Pharmacology	General Medicine
Written/ Viva voce			General Medicine

Skill assessment			General Medicine
Skill assessment			General Medicine
Written/ Viva voce		Pharmacology	General Medicine
Written/ Viva voce		Pharmacology	General Medicine
Written/ Viva voce			General Medicine
Skill assessment			General Medicine
Skill assessment			General Medicine
Written/ Viva voce		Pharmacology	General Medicine
Written/ Viva voce			General Medicine
Written/ Viva voce			General Medicine
Written/ Viva voce			General Medicine
<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Skill assessment			General Medicine

Written/ Viva voce/ Skill assessment			General Medicine
Written/ Viva voce/ Skill assessment			General Medicine
Written/ Viva voce/ Skill assessment			General Medicine
Written/ Viva voce/ Skill assessment			General Medicine
Written/ Viva voce/ Skill assessment			General Medicine
Written/ Viva voce/ Skill assessment			General Medicine
Written/ Viva voce/ Skill assessment			General Medicine

<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
Written/ Viva voce		Pharmacology	General Medicine
Log book			General Medicine



Written/ Viva voce			General Medicine, Obstetrics & Gynecology
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Written/ Viva voce			General Medicine
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Written/ Viva voce			General Medicine
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Written/ Viva voce OSCE			General Medicine
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Written/ Viva voce OSCE		Human Anatomy	General Medicine, General surgery
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Written/ Viva voce			General Medicine Orthopedics
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Written/ Viva voce			General Medicine Orthopedics
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<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
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Written/ Viva voce			General Medicine Orthopedics
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Written/ Viva voce		Human Anatomy	General Medicine
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Written/ Viva voce			General Medicine
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Written/ Viva voce			General Medicine
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Written/ Viva voce			General Medicine
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Written/ Viva voce			General Medicine Orthopedics
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Skill assessment			General Medicine Orthopedics
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Skill assessment			General Medicine
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Written/ Viva voce			General Medicine
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Written/ Viva voce			General Medicine Orthopedics
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Written/ Viva voce		Pharmacology	General Medicine
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Written/ Viva voce			General Medicine Orthopedics
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<b>Suggested Assessment methods</b>	<b>Number required to certify P</b>	<b>Vertical Integration</b>	<b>Horizontal Integration</b>
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Written/ Viva voce			General Medicine Orthopedics General Surgery
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Written/ Viva voce			General Medicine
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Written/ Viva voce			General Medicine
Written/ Viva voce			General Medicine
Written/ Viva voce			General Medicine
Written Viva voce			General Medicine Psychiatry
Written/ Viva voce		Pathology	General Surgery General Medicine