

General Medicine

Paper 1

Part 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
IM1.2	Describe and discuss the genetic basis of some forms of heart failure
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
IM1.4	Stage heart failure
IM1.5	Describe ,discuss and differentiate the processes involved in R Vs L heart failure, systolic vs diastolic failure
IM1.6	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations
IM1.7	Enumerate, describe and discuss the factors that exacerbate heart dietary factors drugs etc.
IM1.8	Describe and discuss the pathogenesis and development of common arrhythmias involved in heart failure particularly atrial fibrillation
IM1.9	Describe and discuss the clinical presentation and features, diagnosis, recognition and management of acute rheumatic fever
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
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, conjunctiva and fundus, lung, cardiac examination including palpation and auscultation with identification of heart sounds and murmurs, abdominal distension and splenic palpation
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure
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
IM1.14	Demonstrate and measure jugular venous distension

IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations
IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures
IM1.18	Perform and interpret a 12 lead ECG
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
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
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture
IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations
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
IM1.25	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology
IM1.27	Describe and discuss the role of penicillin prophylaxis in the prevention of rheumatic heart disease
IM1.28	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease
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
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient

IM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease
IM2.2	Discuss the aetiology of risk factors both modifiable and non modifiable of atherosclerosis and IHD
IM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis
IM2.4	Discuss and describe the pathogenesis natural history, evolution and complications of atherosclerosis and IHD
IM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes
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
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation
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
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation
IM2.10	Order, perform and interpret an ECG
IM2.11	Order and interpret a Chest X-ray and markers of acute myocardial infarction
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context
IM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram
IM2.14	Discuss and describe the indications for admission to a coronary care unit and supportive therapy for a patient with acute coronary syndrome
IM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation
IM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG
IM2.17	Discuss and describe the indications and methods of cardiac rehabilitation
IM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of dyslipidemia

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
IM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes
IM2.21	Observe and participate in a controlled environment an ACLS program
IM2.22	Perform and demonstrate in a mannequin BLS
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
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes
IM8.1	Describe and discuss the epidemiology, aetiology and the prevalence of primary and secondary hypertension
IM8.2	Describe and discuss the pathophysiology of hypertension
IM8.3	Describe and discuss the genetic basis of hypertension
IM8.4	Define and classify hypertension
IM8.5	Describe and discuss the differences between primary and secondary hypertension
IM8.6	Define, describe and discuss and recognise hypertensive urgency and emergency
IM8.7	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension
IM8.8	Describe, discuss and identify target organ damage due to hypertension
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
IM8.10	Perform a systematic examination that includes : an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart
IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM8.12	Describe the appropriate diagnostic work up based on the presumed aetiology

IM8.13	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG
IM8.14	Develop an appropriate treatment plan for essential hypertension
IM8.15	Recognise, prioritise and manage hypertensive emergencies
IM8.16	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake
IM8.17	Perform and interpret a 12 lead ECG
IM8.18	Incorporate patient preferences in the management of HTN
IM8.19	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family
IM8.20	Determine the need for specialist consultation
IM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia
IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury
IM5.3	Describe and discuss the pathologic changes in various forms of liver disease
IM5.4	Describe and discuss the epidemiology, microbiology, immunology and clinical evolution of infective (viral) hepatitis
IM5.5	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease
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
IM5.7	Enumerate and describe the causes and pathophysiology of drug induced liver injury
IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications cholelithiasis and cholecystitis
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
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

IM5.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom
IM5.12	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases.
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology
IM5.15	Assist in the performance and interpret the findings of an ascitic fluid analysis
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis
IM5.18	Enumerate the indications for hepatic transplantation
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IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury
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IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis
IM5.18	Enumerate the indications for hepatic transplantation
IM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss
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
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent

IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
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.
IM15.10	Enumerate the indications for endoscopy, colonoscopy and other imaging procedures in the investigation of Upper GI bleeding
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
IM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion
IM15.13	Observe cross matching and blood / blood component transfusion
IM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of pressors used in the treatment of Upper GI bleed
IM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori
IM15.16	Enumerate the indications for endoscopic interventions and Surgery
IM15.17	Determine appropriate level of specialist consultation
IM15.18	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options
IM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non infectious causes
IM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance
IM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel , sexual history and other concomitant illnesses
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination
IM16.6	Distinguish between diarrhea and dysentery based on clinical features

IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen
IM16.10	Identify vibrio cholera in a hanging drop specimen
IM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea
IM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic imaging and biopsy in the diagnosis of chronic diarrhea
IM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea
IM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea
IM16.15	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis
IM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including immunotherapy
IM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease
IM10.1	Define, describe and differentiate between acute and chronic renal failure
IM10.2	Classify, describe and differentiate the pathophysiologic causes of acute renal failure
IM10.3	Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF
IM10.4	Describe the evolution, natural history and treatment of ARF
IM10.5	Describe and discuss the aetiology of CRF
IM10.6	Stage Chronic Kidney Disease
IM10.7	Describe and discuss the pathophysiology and clinical findings of uraemia
IM10.8	Classify, describe and discuss the significance of proteinuria in CKD
IM10.9	Describe and discuss the pathophysiology of anemia and hyperparathyroidism in CKD

IM10.10	Describe and discuss the association between CKD glycemia and hypertension
IM10.11	Describe and discuss the relationship between CAD risk factors and CKD and in dialysis
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
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
IM10.14	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM10.15	Describe the appropriate diagnostic work up based on the presumed aetiology
IM10.16	Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap
IM10.17	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)
IM10.18	Identify the ECG findings in hyperkalemia
IM10.19	Enumerate the indications and describe the findings in renal ultrasound
IM10.20	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data
IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter
IM10.22	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter
IM10.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients
IM10.24	Counsel patients on a renal diet
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
IM10.26	Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glycemic therapy, dyslipidemia, anemia, hyperkalemia, hyperphosphatemia and secondary hyperparathyroidism

IM10.27	Describe and discuss the indications for renal dialysis
IM10.28	Describe and discuss the indications for renal replacement therapy
IM10.29	Describe discuss and communicate the ethical and legal issues involved in renal replacement therapy
IM10.30	Recognise the impact of CKD on patient's quality of life well being work and family
IM10.31	Incorporate patient preferences in to the care of CKD
IM24.1	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components
IM24.3	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states
IM24.4	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly
IM24.5	Describe and discuss the aetiopathogenesis clinical presentation identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly
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
IM24.7	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the elderly
IM24.8	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly
IM24.9	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of CVA in the elderly
IM24.10	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly

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

Paper 1
Part C

IM3.1	Define, discuss, describe and distinguish community acquired pneumonia, nosocomial pneumonia and aspiration pneumonia
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
IM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk
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
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation
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
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration
IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum.
IM3.14	Perform and interpret a sputum gram stain and AFB
IM3.15	Describe and enumerate the indications for hospitalisation in patients with pneumonia
IM3.16	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia

IM3.17	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of pneumonia
IM3.19	Discuss, describe, enumerate the indications and communicate to patients on pneumococcal and influenza vaccines
IM4.1	Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response
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
IM4.3	Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g.Dengue, Chikungunya, Typhus)
IM4.4	Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever
IM4.5	Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies
IM4.6	Discuss and describe the pathophysiology and manifestations of malaria
IM4.7	Discuss and describe the pathophysiology and manifestations of the sepsis syndrome
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
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
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)
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes

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
IM4.13	Perform and interpret a sputum gram stain
IM4.14	Perform and interpret a sputum AFB
IM4.15	Perform and interpret a malarial smear
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
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment
IM4.18	Enumerate the indications for use of imaging in the diagnosis of febrile syndromes
IM4.19	Assist in the collection of blood and wound cultures
IM4.20	Interpret a PPD (Mantoux)
IM4.21	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner
IM4.22	Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial drugs and basis of resistance
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs
IM4.24	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis
IM4.25	Communicate to the patient and family the diagnosis and treatment
IM4.26	Counsel the patient on malarial prevention
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)
IM25.2	Discuss and describe the common causes, pathophysiology and manifestations of these diseases

IM25.3	Describe and discuss the pathophysiology and manifestations of these diseases
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
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)
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes
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 QBC
IM25.8	Enumerate the indications for use of newer techniques in the diagnosis of these infections
IM25.9	Assist in the collection of blood and other specimen cultures
IM25.10	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner
IM25.11	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis
IM25.12	Communicate to the patient and family the diagnosis and treatment of identified infection
IM25.13	Counsel the patient and family on prevention of various infections due to environmental issues
IM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in India
IM13.2	Describe the genetic basis of selected cancers
IM13.3	Describe the relationship between infection and cancers
IM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers
IM13.5	Describe the common issues encountered in patients at the end of life and principles of management

IM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer
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
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
IM13.9	Demonstrate in a mannequin the correct technique for performing breast exam, rectal examination and cervical examination and pap smear
IM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM13.11	Order and interpret diagnostic testing based on the clinical diagnosis including CBC and stool occult blood and prostate specific antigen
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
IM13.13	Describe and assess pain and suffering objectively in a patient with cancer
IM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies
IM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies
IM13.16	Demonstrate an understanding and needs and preferences of patients when choosing curative and palliative therapy
IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer
IM13.18	Describe and discuss the ethical and the medico legal issues involved in end of life care
IM13.19	Describe the therapies used in alleviating suffering in patients at the end of life
IM9.1	Define, describe and classify anemia based on red blood cell size and reticulocyte count
IM9.2	Describe and discuss the morphological characteristics, aetiology and prevalence of each of the causes of anemia
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

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
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology
IM9.7	Describe and discuss the meaning and utility of various components of the hemogram
IM9.8	Describe and discuss the various tests for iron deficiency
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood
IM9.11	Describe the indications and interpret the results of a bone marrow aspirations and biopsy
IM9.12	Describe, develop a diagnostic plan to determine the aetiology of anemia
IM9.13	Prescribe replacement therapy with iron, B12, folate
IM9.14	Describe the national programs for anemia prevention
IM9.15	Communicate the diagnosis and the treatment appropriately to patients
IM9.16	Incorporate patient preferences in the management of anemia
IM9.17	Describe the indications for blood transfusion and the appropriate use of blood components
IM9.18	Describe the precautions required necessary when performing a blood transfusion
IM9.19	Assist in a blood transfusion
IM9.20	Communicate and counsel patients with methods to prevent nutritional anemia
IM9.21	Determine the need for specialist consultation
IM6.1	Describe and discuss the symptoms and signs of acute HIV seroconversion
IM6.2	Define and classify HIV AIDS based on the CDC criteria

IM6.3	Describe and discuss the relationship between CDC count and the risk of opportunistic infections
IM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections
IM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies
IM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions
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
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom
IM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC
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
IM6.11	Enumerate the indications and describe the findings for CT of the chest and brain and MRI
IM6.12	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph
IM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea
IM6.14	Perform and interpret AFB sputum
IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture
IM6.16	Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions
IM6.17	Discuss and describe the principles and regimens used in post exposure prophylaxis
IM6.18	Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections
IM6.19	Counsel patients on prevention of HIV transmission

IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients
IM6.21	Communicate with patients on the importance of medication adherence
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles
IM7.1	Describe the pathophysiology of autoimmune disease
IM7.2	Describe the genetic basis of autoimmune disease
IM7.3	Classify cause of joint pain based on the pathophysiology
IM7.4	Develop a systematic clinical approach to joint pain based on the pathophysiology
IM7.5	Describe and discriminate acute, subacute and chronic causes of joint pain
IM7.6	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain
IM7.7	Discriminate, describe and discuss distinguishing articular from periarticular complaints
IM7.8	Determine the potential causes of joint pain based on the presenting features of joint involvement
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions
IM7.23	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases
IM7.24	Communicate and incorporate patient preferences in the choice of therapy
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions
IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family
IM7.27	Determine the need for specialist consultation

PAPER II
PART- B

IM11.1	Define and classify diabetes
IM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1 diabetes
IM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic impact and clinical evolution of type 2 diabetes
IM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes
IM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes
IM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies
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
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)
IM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency
IM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
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
IM11.12	Perform and interpret a capillary blood glucose test
IM11.13	Perform and interpret a urinary ketone estimation with a dipstick
IM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy
IM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy
IM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions

IM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost effective manner
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
IM11.19	Demonstrate and counsel patients on the correct technique to administer insulin
IM11.20	Demonstrate to and counsel patients on the correct technique of self monitoring of blood glucoses
IM11.21	Recognise the importance of patient preference while selecting therapy for diabetes
IM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment
IM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis
IM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state
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
IM12.2	Describe and discuss the genetic basis of some forms of thyroid dysfunction
IM12.3	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function
IM12.4	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity
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
IM12.7	Demonstrate the correct technique to palpate the thyroid
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis

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
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG
IM12.11	Interpret thyroid function tests in hypo and hyperthyroidism
IM12.12	Describe and discuss the iodisation programs of the government of India
IM12.13	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs
IM12.14	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status
IM12.15	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis
IM17.1	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache
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
IM17.3	Classify migraine and describe the distinguishing features between classical and non classical forms of migraine
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging
IM17.7	Enumerate the indications and describe the findings in the CSF in patients with meningitis
IM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis
IM17.10	Enumerate the indications for emergency care admission and immediate supportive care in patients with headache

IM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine
IM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine
IM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis
IM17.14	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy
IM18.1	Describe the functional and the vascular anatomy of the brain
IM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non hemorrhagic stroke
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
IM18.4	Identify the nature of the cerebrovascular accident based on the temporal evolution and resolution of the illness
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech
IM18.8	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in CNS disease
IM18.9	Choose and interpret the appropriate diagnostic and imaging test that will delineate the anatomy and underlying cause of the lesion
IM18.10	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)
IM18.11	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)
IM18.12	Enumerate the indications for and describe acute therapy of non hemorrhagic stroke including the use of thrombolytic agents
IM18.13	Enumerate the indications for and describe the role of anti platelet agents in non hemorrhagic stroke

IM18.14	Describe the initial management of a hemorrhagic stroke
IM18.15	Enumerate the indications for surgery in a hemorrhagic stroke
IM18.16	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA
IM18.17	Counsel patient and family about the diagnosis and therapy in an empathetic manner
IM19.1	Describe the functional anatomy of the locomotor system of the brain
IM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors
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
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders
IM19.8	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome
IM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders
IM20.1	Enumerate the local poisonous snakes and describe the distinguishing marks of each
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
IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite
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
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination

IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites
IM20.7	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom
IM20.8	Describe the diagnosis, initial approach stabilisation and therapy of scorpion envenomation
IM20.9	Describe the diagnosis initial approach stabilisation and therapy of bee sting allergy
IM21.1	Describe the initial approach to the stabilisation of the patient who presents with poisoning
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy
IM21.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning
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
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture
IM22.1	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia
IM22.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism
IM22.3	Describe the approach to the management of hypercalcemia
IM22.4	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome
IM22.5	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with hyponatremia

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
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
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
IM22.9	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis
IM22.10	Enumerate the causes of describe the clinical and laboratory features of metabolic alkalosis
IM22.11	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis
IM22.12	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis
IM22.13	Identify the underlying acid based disorder based on an ABG report and clinical situation
IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital
IM23.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet
IM14.1	Define and measure obesity as it relates to the Indian population
IM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes
IM14.3	Describe and discuss the monogenic forms of obesity
IM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity
IM14.5	Describe and discuss the natural history of obesity and its complications

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
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
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.
IM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity
IM14.11	Communicate and counsel patient on behavioural, dietary and lifestyle modifications
IM14.12	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way
IM14.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for obesity
IM14.14	Describe and enumerate the indications and side effects of bariatric surgery
IM14.15	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle

**PAPER II
PART- C**

IM26.1	Enumerate and describe professional qualities and roles of a physician
IM26.2	Describe and discuss the commitment to lifelong learning as an important part of physician growth
IM26.3	Describe and discuss the role of non maleficence as a guiding principle in patient care
IM26.4	Describe and discuss the role of autonomy and shared responsibility as a guiding principle in patient care
IM26.5	Describe and discuss the role of beneficence of a guiding principle in patient care
IM26.6	Describe and discuss the role of a physician in health care system
IM26.7	Describe and discuss the role of justice as a guiding principle in patient care
IM26.8	Identify discuss medicolegal, socioeconomic and ethical issues as it pertains to organ donation
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
IM26.10	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care
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
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
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
IM26.14	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to research in human subjects
IM26.15	Identify, discuss and defend, medicolegal,socio-cultural and ethical issues as they pertain to consent for surgical procedures
IM26.16	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues as it pertains to the physician patient relationship (including fiduciary duty)

IM26.17	Identify, discuss physician's role and responsibility to society and the community that she/ he serves
IM26.18	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues in physician- industry relationships
IM26.19	Demonstrate ability to work in a team of peers and superiors
IM26.20	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner
IM26.21	Demonstrate respect to patient privacy
IM26.22	Demonstrate ability to maintain confidentiality in patient care
IM26.23	Demonstrate a commitment to continued learning
IM26.24	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers
IM26.25	Demonstrate responsibility and work ethics while working in the health care team
IM26.26	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)
IM26.27	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities
IM26.28	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning
IM26.29	Communicate diagnostic and therapeutic options to patient and family in a simulated environment
IM26.30	Communicate care options to patient and family with a terminal illness in a simulated environment
IM26.31	Demonstrate awareness of limitations and seeks help and consultations appropriately
IM26.32	Demonstrate appropriate respect to colleagues in the profession
IM26.33	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors
IM26.34	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts

IM26.35	Demonstrate empathy in patient encounters
IM26.36	Demonstrate ability to balance personal and professional priorities
IM26.37	Demonstrate ability to manage time appropriately
IM26.38	Demonstrate ability to form and function in appropriate professional networks
IM26.39	Demonstrate ability to pursue and seek career advancement
IM26.40	Demonstrate ability to follow risk management and medical error reduction practices where appropriate
IM26.41	Demonstrate ability to work in a mentoring relationship with junior colleagues
IM26.42	Demonstrate commitment to learning and scholarship
IM26.43	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as they pertain to in vitro fertilisation donor insemination and surrogate motherhood
IM26.44	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to medical negligence
IM26.45	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to malpractice
IM26.46	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues in dealing with impaired physicians
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
IM26.48	Demonstrate altruism
IM26.49	Administer informed consent and appropriately address patient queries to a patient being enrolled in a research protocol in a simulated environment
PS1.1	Establish rapport and empathy with patients
PS1.2	Describe the components of communication
PS1.3	Demonstrate breaking of bad news in a simulated environment
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters

PS2.1	Define stress and describe its components and causes
PS2.2	Describe the role of time management, study skills, balanced diet and sleep wake habits in stress avoidance
PS2.3	Define and describe the principles and components of learning memory and emotions
PS2.4	Describe the principles of personality development and motivation
PS2.5	Define and distinguish normality and abnormality
PS3.1	Describe the growth of psychiatry as a medical specialty, its history and contribution to society
PS3.2	Enumerate, describe and discuss important signs & symptoms of common mental disorders
PS3.3	Elicit, present and document a history in patients presenting with a mental disorder
PS3.4	Describe the importance of establishing rapport with patients
PS3.5	Perform, demonstrate and document a minimal examination
PS3.6	Describe and discuss biological, psychological & social factors & their interactions in the causation of mental disorders
PS3.7	Enumerate and describe common organic psychiatric disorders, magnitude, etiology and clinical features
PS3.8	Enumerate and describe the essential investigations in patients with organic psychiatric disorders
PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders
PS3.10	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders
PS3.11	Enumerate the appropriate conditions for specialist referral in patients with psychiatric disorders
PS3.12	Describe, discuss and distinguish psychotic & non-psychotic (Mood, Anxiety, Stress related) disorders
PS4.1	Describe the magnitude and etiology of alcohol and substance use disorders
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders

PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders
PS4.4	Describe the treatment of alcohol and substance abuse disorders including behavioural and pharmacologic therapy
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment
PS4.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in alcohol and substance abuse
PS4.7	Enumerate the appropriate conditions for specialist referral in patients with alcohol and substance abuse disorders
PS5.1	Classify and describe the magnitude and etiology of schizophrenia & other psychotic disorders
PS5.2	Enumerate, elicit, describe and document clinical features, positive s
PS5.3	Describe the treatment of schizophrenia including behavioural and pharmacologic therapy
PS5.4	Demonstrate family education in a patient with schizophrenia in a simulated environment
PS5.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in schizophrenia
PS5.6	Enumerate the appropriate conditions for specialist referral in patients with psychotic disorders
PS6.1	Classify and describe the magnitude and etiology of depression
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression
PS6.4	Describe the treatment of depression including behavioural and pharmacologic therapy
PS6.5	Demonstrate family education in a patient with depression in a simulated environment
PS6.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in depression
PS6.7	Enumerate the appropriate conditions for specialist referral in patients with depression
PS7.1	Classify and describe the magnitude and etiology of bipolar disorders

PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders
PS7.4	Describe the treatment of bipolar disorders including behavioural and pharmacologic therapy
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment
PS7.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in bipolar disorders
PS7.7	Enumerate the appropriate conditions for specialist referral in patients with bipolar disorders
PS8.1	Enumerate and describe the magnitude and etiology of anxiety disorders
PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders
PS8.4	Describe the treatment of anxiety disorders including behavioural and pharmacologic therapy
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment
PS8.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in anxiety disorders
PS8.7	Enumerate the appropriate conditions for specialist referral in anxiety disorders
PS9.1	Enumerate and describe the magnitude and etiology of stress related disorders
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders
PS9.4	Describe the treatment of stress related disorders including behavioural and psychosocial therapy
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment
PS9.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in stress related disorders
PS9.7	Enumerate the appropriate conditions for specialist referral in stress disorders
PS10.1	Enumerate and describe the magnitude and etiology of somatoform, dissociative and conversion disorders

PS10.2	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders
PS10.3	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders
PS10.4	Describe the treatment of somatoform disorders including behavioural, psychosocial and pharmacologic therapy
PS10.5	Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a simulated environment
PS10.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in somatoform, dissociative and conversion disorders
PS10.7	Enumerate the appropriate conditions for specialist referral in patients with somatoform dissociative and conversion disorders
PS11.1	Enumerate and describe the magnitude and etiology of personality disorders
PS11.2	Enumerate, elicit, describe and document clinical features in patients with personality disorders
PS11.3	Enumerate and describe the indications and interpret laboratory and other tests used in personality disorders
PS11.4	Describe the treatment of personality disorders including behavioural, psychosocial and pharmacologic therapy
PS11.5	Demonstrate family education in a patient with personality disorders in a simulated environment
PS11.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in personality disorders
PS11.7	Enumerate the appropriate conditions for specialist referral
PS12.1	Enumerate and describe the magnitude and etiology of psychosomatic disorders
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders
PS12.4	Describe the treatment of psychosomatic disorders including behavioural, psychosocial and pharmacologic therapy
PS12.5	Demonstrate family education in a patient with psychosomatic disorders in a simulated environment
PS12.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosomatic disorders

PS12.7	Enumerate the appropriate conditions for specialist referral
PS13.1	Enumerate and describe the magnitude and etiology of psychosexual and gender identity disorders
PS13.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosexual and gender identity disorders
PS13.3	Enumerate and describe the indications and interpret laboratory and other tests used in psychosexual and gender identity disorders
PS13.4	Describe the treatment of psychosexual and gender identity disorders including behavioural, psychosocial and pharmacologic therapy
PS13.5	Demonstrate family education in a patient with psychosexual and gender identity disorders in a simulated environment
PS13.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosexual and gender identity disorders
PS13.7	Enumerate the appropriate conditions for specialist referral
PS14.1	Enumerate and describe the magnitude and etiology of psychiatric disorders occurring in childhood and adolescence
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence
PS14.3	Describe the treatment of stress related disorders including behavioural, psychosocial and pharmacologic therapy
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment
PS14.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders occurring in childhood and adolescence
PS14.6	Enumerate the appropriate conditions for specialist referral in children and adolescents with psychiatric disorders
PS15.1	Describe the aetiology and magnitude of mental retardation
PS15.2	Describe and discuss intelligence quotient and its measurement
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation

PS15.4	Describe the psychosocial interventions and treatment used in mental retardation
PS16.1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis
PS16.2	Describe the aetiology and magnitude of psychiatric illness in the elderly
PS16.3	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy
PS16.4	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment
PS16.5	Enumerate the appropriate conditions for specialist referral in psychiatric disorders in the elderly
PS17.1	Enumerate and describe the recognition and clinical presentation of psychiatric emergencies (Suicide, Deliberate Self Harm, Violent behaviour)
PS17.2	Describe the initial stabilisation and management of psychiatric emergencies
PS17.3	Enumerate the appropriate conditions for specialist referral in patients with psychiatric emergencies
PS18.1	Enumerate the indications and describe the pharmacology, dose and side effects of commonly use drugs in psychiatric disorders
PS18.2	Enumerate the indications for modified electroconvulsive therapy
PS18.3	Enumerate and describe the principles and role of psychosocial interventions in psychiatric illness including psychotherapy, behavioural therapy and rehabilitation
PS19.1	Describe the relevance, role and status of community psychiatry
PS19.2	Describe the objectives strategies and contents of the National Ment
PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry
PS19.4	Enumerate and describe the salient features of the prevalent mental health laws in India
PS19.5	Describe the concept and principles of preventive psychiatry and mental health promotion (positive mental health); and community education

PS19.6	Enumerate and describe the identifying features and the principles of participatory management of mental illness occurring during and after disasters
DR1.1	Enumerate the causative and risk factors of acne
DR1.2	Identify and grade the various common types of acne
DR1.3	Describe the treatment and preventive measures for various kinds of acne
DR2.1	Identify and differentiate vitiligo from other causes of hypopigmented lesions
DR2.2	Describe the treatment of vitiligo
DR3.1	Identify and distinguish psoriatic lesions from other causes
DR3.2	Demonstrate the grattage test
DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis including topical, systemic and phototherapy
DR4.1	Identify and distinguish lichen planus lesions from other causes
DR4.2	Enumerate and describe the treatment modalities for lichen planus
DR5.1	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies in adults and children
DR5.2	Identify and differentiate scabies from other lesions in adults and children
DR5.3	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies
DR6.1	Describe the etiology pathogenesis and diagnostic features of pediculosis in adults and children
DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children
DR7.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytes in adults and children
DR7.2	Identify Candida species in fungal scrapings and KOH mount
DR7.3	Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy

DR8.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions
DR8.3	Identify and distinguish herpes zoster and varicella from other skin lesions
DR8.4	Identify and distinguish viral warts from other skin lesions
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear
DR8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for common viral illnesses of the skin
DR9.1	Classify, describe the epidemiology, etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of Leprosy
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination
DR9.3	Enumerate the indications and observe the performance of a slit skin smear in patients with leprosy
DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines
DR9.6	Describe the treatment of Leprosy based on the WHO guidelines
DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma.
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations
DR10.2	Identify spirochete in a dark ground microscopy
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis

DR10.4	Describe the prevention of congenital syphilis
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted disease
DR10.6	Describe the etiology, diagnostic and clinical features of non- syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.7	Identify and differentiate based on the clinical features non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
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)
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease
DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non-gonococcal urethritis
DR10.11	Describe the etiology, diagnostic and clinical features and management of vaginal discharge
DR11.1	Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV and its complications including opportunistic infections
DR11.2	Identify and distinguish the dermatologic manifestations of HIV, its complications, opportunistic infections and adverse reactions
DR11.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV
DR12.1	Describe the aetiopathogenesis of eczema
DR12.2	Identify eczema and differentiate it from lichenification and changes of aging
DR12.3	Classify and grade eczema
DR12.4	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the treatment of eczema
DR12.5	Define erythroderma. Enumerate and identify the causes of erythroderma. Discuss the treatment

DR12.6	Identify and distinguish exfoliative dermatitis from other skin lesions
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions
DR13.1	Distinguish bulla from vesicles
DR13.2	Demonstrate the Tzanck test, nikolsky sign and bulla spread sign
DR13.3	Calculate the body surface area of involvement of vesiculobullous lesions
DR14.1	Describe the etiology, pathogenesis and clinical precipitating features and classification of Urticaria and angioedema
DR14.2	Identify and distinguish urticarial from other skin lesions
DR14.3	Demonstrate dermographism
DR14.4	Identify and distinguish angioedema from other skin lesions
DR14.5	Enumerate the indications and describe the pharmacology indications and adverse reactions of drugs used in the urticaria and angioedema
DR15.1	Identify and distinguish folliculitis impetigo and carbuncle from other skin lesions
DR15.2	Identify staphylococcus on a gram stain
DR15.3	Enumerate the indications and describe the pharmacology, indications and adverse reactions of topical and systemic drugs used in treatment of pyoderma
DR15.4	Enumerate the indications for surgical referral
DR16.1	Identify and distinguish skin lesions of SLE
DR16.2	Identify and distinguish Raynaud's phenomenon
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency
DR17.4	Enumerate and describe the various changes in Zinc deficiency
DR18.1	Enumerate the cutaneous features of Type 2 diabetes

DR18.2	Enumerate the cutaneous features of hypo/hyper-thyroidism
AN4.2	Describe structure & function of skin with its appendages
AN4.4	Describe modifications of deep fascia with its functions
AN4.5	Explain principles of skin incisions
CT1.1	Describe and discuss the epidemiology of tuberculosis and its impact on the work, life and economy of India
CT1.2	Describe and discuss the microbiology of tubercle bacillus, mode of transmission, pathogenesis, clinical evolution and natural history of pulmonary and extra pulmonary forms (including lymph node, bone and CNS)
CT1.3	Discuss and describe the impact of co-infection with HIV and other co-morbid conditions. Like diabetes on the natural history of tuberculosis
CT1.4	Describe the epidemiology, the predisposing factors and microbial and therapeutic factors that determine resistance to drugs
CT1.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever CNS and other manifestations
CT1.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a) general examination, b) examination of the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination
CT1.7	Perform and interpret a PPD (mantoux) and describe and discuss the indications and pitfalls of the test
CT1.8	Generate a differential diagnosis based on the clinical history and evolution of the disease that prioritises the most likely diagnosis
CT1.9	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing
CT1.10	Perform and interpret an AFB stain
CT1.11	Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration
CT1.12	Enumerate the indications for tests including: serology, special cultures and polymerase chain reaction and sensitivity testing

CT1.13	Describe and discuss the origin, indications, technique of administration, efficacy and complications of the BCG vaccine
CT1.14	Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications, interactions and adverse reactions
CT1.15	Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and co- morbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)
CT1.16	Describe the appropriate precautions, screening, testing and indications for chemoprophylaxis for contacts and exposed health care workers
CT1.17	Define criteria for the cure of Tuberculosis; describe and recognise the features of drug resistant tuberculosis, prevention and therapeutic regimens
CT1.18	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS program
CT1.19	Communicate with patients and family in an empathetic manner about the diagnosis, therapy
CT2.1	Define and classify obstructive airway disease
CT2.2	Describe and discuss the epidemiology, risk factors and evolution of obstructive airway disease
CT2.3	Enumerate and describe the causes of acute episodes in patients with obstructive airway disease
CT2.4	Describe and discuss the physiology and pathophysiology of hypoxia and hypercapnea
CT2.5	Describe and discuss the genetics of alpha 1 antitrypsin deficiency in emphysema
CT2.6	Describe the role of the environment in the cause and exacerbation of obstructive airway disease
CT2.7	Describe and discuss allergic and non-allergic precipitants of obstructive airway disease
CT2.8	Elicit document and present a medical history that will differentiate the aetiologies of obstructive airway disease, severity and precipitants
CT2.9	Perform a systematic examination that establishes the diagnosis and severity that includes measurement of respiratory rate, level of respiratory distress, effort tolerance, breath sounds, added sounds, identification of signs of consolidation pleural effusion and pneumothorax

CT2.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
CT2.11	Describe, discuss and interpret pulmonary function tests
CT2.12	Perform and interpret peak expiratory flow rate
CT2.13	Describe the appropriate diagnostic work up based on the presumed aetiology
CT2.14	Enumerate the indications for and interpret the results of : pulse oximetry, ABG, Chest Radiograph
CT2.15	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
CT2.16	Discuss and describe therapies for OAD including bronchodilators, leukotriene inhibitors, mast cell stabilisers, theophylline, inhaled and systemic steroids, oxygen and immunotherapy
CT2.17	Describe and discuss the indications for vaccinations in OAD
CT2.18	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids

CT2.19	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, antimicrobial therapy
CT2.20	Describe and discuss the principles and use of oxygen therapy in the hospital and at home
CT2.21	Describe discuss and counsel patients appropriately on smoking cessation
CT2.22	Demonstrate and counsel patient on the correct use of inhalers
CT2.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients

CT2.24	Recognise the impact of OAD on patient's quality of life, well being, work and family
CT2.25	Discuss and describe the impact of OAD on the society and workplace
CT2.26	Discuss and describe preventive measures to reduce OAD in workplaces
CT2.27	Demonstrate an understanding of patient's inability to change working, living and environmental factors that influence progression of airway disease
CT2.28	Demonstrate an understanding for the difficulties faced by patients during smoking cessation
PY6.8	Demonstrate the correct technique to perform & interpret Spirometry
PH1.32	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of drugs used in bronchial asthma and COPD
PH1.33	Describe the mechanism of action, types, doses, side effects, indications and contraindications of the drugs used in cough (antitussives, expectorants/ mucolytics)
PH1.44	Describe the first line antitubercular drugs, their mechanisms of action, side effects and doses.
PH1.45	Describe the drugs used in MDR and XDR Tuberculosis
IM24.10	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly
PE28.19	Describe the etio-pathogenesis, clinical features, diagnosis, management and prevention of asthma in children
PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment
PE34.1	Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents
PE34.2	Discuss the various diagnostic tools for childhood tuberculosis
PE34.3	Discuss the various regimens for management of Tuberculosis as per National Guidelines

PE34.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program
PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient encounter
PE34.6	Identify a BCG scar
PE34.7	Interpret a Mantoux test
PE34.8	Interpret a Chest Radiograph
PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis
PE34.10	Discuss the various samples for demonstrating the organism eg Gastric Aspirate, Sputum, CSF, FNAC
PE34.11	Perform AFB staining
PE34.12	Enumerate the indications and discuss the limitations of methods of culturing M. Tuberculi