

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

T.Y. M.B.B.S (PART- II)

MEDICINE

1. GENETICS AND DISEASE

Principles of Human Genetics, Chromosome Disorders, The practice of Genetics in Clinical Medicine, Gene therapy, Stem Cell and Gene Transfer in Clinical Medicine, Genetic testing and counseling.

2. NUTRITION

Nutritional Requirements Dietary Assessment, Disorders of carbohydrate, fat and protein metabolism, Vitamin and Trace Mineral Deficiency and Excess, Malnutrition and Nutritional Assessment, Obesity, Eating Disorders, Food borne Toxic Diseases, Free radicals and Antioxidants.

3. INFECTIOUS DISEASES:

Infections–types, Modes of Infection, transmission, Incubation period, Host defenses, Immunity & Immunization & Management including Prevention, Pyrexia of unknown origin, gram positive bacterial infections, gram negative bacterial infections, chlamydial, rickettsial, and mycoplasmal infections, Spirochaetal infections, Mycobacterial infections :tuberculosis, leprosy; Viral infections, Fungal infections, Parasitic infections, Protozoal infections & Helminthic infestations, Tetanus, Diphtheria, Malaria, Rabies, Typhoid fever, Gastroenteritis, Plague , Dengue, HIV : Infection & AIDs.

4. CARDIOVASCULAR SYSTEM :

Applied anatomy / physiology and investigations of cardiac diseases, Symptomatology, Arrhythmias, Shock, Cardiac arrest, C.C.F, Congenital heart diseases, Rheumatic fever, Infective endocarditis, Valvular Heart Disease ,Coronary artery disease, Myocardial diseases and cardiomyopathy, Hypertension, Vascular diseases, Pericardial diseases

5. GASTROENTEROLOGY, HEPATOBILIARY SYSTEM & PANCREAS :

Applied anatomy, physiology and investigations of GIT, symptomatology, Diseases of: Oral cavity, Oesophagus, Stomach, Small and large intestine, Anorectal diseases, Ischemia of gut, Irritable bowel syndrome, Mal absorption syndrome, Tuberculosis of Abdomen, Ulcerative colitis & Crohn's disease, Applied anatomy, physiology and

investigationsof Liver, Gall bladder and Pancreas, Diseases of Liver, Gall bladder, Pancreas and Peritoneum.

6. RESPIRATORY SYSTEM :

Applied Anatomy and physiology and investigations of R.S., Pulmonary Function Testing, Symptomatology: Resp. Infection- Pneumonias (Bacterial, Tuberculous, Viral, Fungal, Spirochaetal, Chemical, etc),Tuberculosis :Pulmonary and Extrapulmonary TB,HIV & TB, DOTS, BCG and Tuberculin test, Drug resistant tuberculosis, Bronchiectasis and lung abscess, Bronchial asthma, Acute and Chronic Bronchitis, Emphysema, Pulmonary Hypertension, Cor pulmonale, Respiratory failure, Pulmonary fibrosis, Eosinophilic lung diseases, Malignancies: Bronchogenic carcinoma , Mediastinum and its disorders.; Pleural disease – Pneumothorax, hydro pneumothorax, Pleural effusion, Empyema, Occupational lung disease, Respiratory emergencies & Introduction to mechanical ventilators, Diseases of diaphragm and chest wall

7. IMMUNE SYSTEM ,CONNECTIVE TISSUE, JOINTS:

Immune system, types of immune reaction and their relation to human diseases, Allergy - Concept & hypersensitivity, Autoimmunity, Collagen disease. Rheumatoid arthritis, Ankylosing spondylitis, Sero negative arthritis, Systemic lupus erythematosus, sarcoidosis, amyloidosis, systemic sclerosis, Gout, rickets, osteomalacia, Osteoarthritis, infectious arthritis, arthritis associated with systemic disease, heritable connective tissue disease, periarticular diseases,

8. NEUROLOGY:

Applied anatomy & physiology and Investigations, major manifestations of neurological diseases,: Headache ,facial pain, dizziness, syncope, vertigo, Involuntary movements, sensory disturbances, disturbances of cortical functions and speech ,Disorders of Cranial nerves, Coma ,brain death, Cerebro Vasular Disease, Space Occupying Lesions and raised intracranial pressure, Encephalitis and meningitis, Tuberculosis of nervous system ,Neurosyphilis, Deficiency disorders of nervous system , Epilepsy, Cerebellar diseases, Hereditary and Degenerative diseases, Parkinsonism, Spinal cord disorders, Diseases of muscle, neuromuscular junction, Myasthenia gravis, Peripheral neuropathy, Guillain Barre Syndrome, Sciatica, CSF

9. HEMATOLOGY:

Hemopoiesis, Stimulating factors, Physiology and Anatomy of RBCs, Bone marrow puncture, Anemias : Microcytic hypochromic anaemia, Macrocytic anaemias, Hemolytic anaemias Hemoglobinopathies, Hypoplastic / Aplastic anemia, Diseases of WBCs :

Agranulocytosis, Leukemias ,Lymphomas, Approach to a patient with bleeding disorders, Diseases of platelet and vessel wall, Disorders of coagulation and thrombosis, Blood groups & Blood Transfusion & Component Therapy, Plasma cell disorders

10. ENDOCRINE AND METABOLIC DISORDERS:

Functional anatomy, physiology and investigation of Endocrine system, diseases of Hypothalamus, Pituitary gland, Thyroid and Parathyroids, Pancreas, Adrenal gland, Testis, Ovary, Sexual disorders, Diabetes Mellitus & other metabolic disorders, Multiple endocrine-syndrome and paraneoplastic syndrome, Diabetes insipidus, Syndrome of inappropriate Antidiuretic hormone, Obesity.

11. NEPHROLOGY :

Anatomy & Physiology of Urinary system, Renal Function Tests, Glomerular diseases, Infections of urinary system, Nephrotic syndrome, Approach towards common problem :Proteinuria, Hematuria , Disorders of urine volume, Oedema, Incontinence, Renal colic, Acute & Chronic renal failure, Dialysis - Diet – Drugs in renal failure, Tubular and tubulointerstitial diseases, Nephrolithiasis, Urinary tract obstruction, Fluid and electrolyte disorders

12. PSYCHIATRIC DISORDERS:

Basic considerations, Organic brain syndromes ,Mood disorders, Psychotic disorders and Schizophrenia, Anxiety disorders, Somatoform disorders, Psychosexual and Personality disorders, Alcohol and alcoholism, Opioid drug abuse and dependence, Cocaine and other substance abuse, Nicotine addiction, Psychiatric emergencies, Treatment of psychiatric disorders

13. POISONING AND TOXICOLOGY :

Basic considerations, Plant poisons, Drug poisoning, Organophosphate poisoning, pesticide poisoning, Methyl Alcohol poisoning, Corrosive acid poisoning, Corrosive alkali poisoning ,Snake bites, Scorpion sting, Heavy metal poisoning, D.D.T, Kerosene, Barbiturate, Datura, and Morphine poisoning ,Miscellaneous poisonings

14. DERMATOLOGY:

Basic considerations, Approach to a patient with skin disorder, Bacterial skin infections ,Fungal skin infections, Viral skin infections, Protozoal and Parasitic skin infestations, Eczema, Photosensitivity dermatosis ,Hypersensitivity skin disorders, Acne, acneform eruptions and rosacea ,Hair and nail disorders, Pigmentary skin disorders, Keratinisation and Papulosquamous disorders, Vesiculobullous skin disorders ,Metabolic

and Nutritional skin disorders, Skin manifestations of systemic disease, Developmental skin disorders, Skin tumors, Immunologically mediated skin diseases, Cutaneous drug reactions, Leprosy, Sexually transmitted diseases, Mucocutaneous manifestations of AIDS, Therapy of skin disease .

15. MISCELLANEOUS:

Hyperpyrexia and heat exhaustion, electric shock & lightning injuries, Drowning, Hanging, occupational hazards, Radiation hazards Pregnancy medicine.