

Kisan Dynoday Mandal Gudhe, Homoeopathic Medical College, Shirpur

Academic year 2021-22

Academic activity/Seminar/Tutorials/Discussions in last one year

From July 2021 to April 2022

Department of Pathology

Sr no	Month	Topic	No of Lctures	Method
1	July	Introduction to Pathology	03	Blackboard Chalk method Seminar Tutorials Discussion.
		Scope and limitations of study of Pathology in Homoeopathic Science		
2		Introduction to Miasms		
		Pathological processes and Basic terms used in pathology with their meaning		
3		Classification of Diseases, Symptoms, Signs in relation with Organon of Philosophy		
4		CELL ENJURY ---Defination, Causes	01	
5		Adaptive Responses —(Defination, Physiological type, Pathological Type, Cytological changes, Common Examples) a)Atrophy b)Hypertrophy c) Hyperplasia d) Metaplasia e) Dysplasia	02	
6		Repair-process Regeneration-cell cycle, different types of cells Healing- defination, 1 st intention, 2 nd intention	03	
7	August	Inflammation – Acute Inflammation- Defination, Causes, Signs, Types, Chemical mediators of acute inflammation with their sources and functions,	02	Blackboard Chalk method Seminar Tutorials Discussion.
8		vascular and cellular response, factors determining Inflammatory process, fate of Acute Inflammation	02	
9		Chronic Inflammation- Defination, Causes, Signs, Types	01	
10		Giant cells-Types, Examples Granuloma-defination, pathogenesis, morphology	01	
11		Degeneration – Defination, Aetiology, Types, Pathogenesis, Macroscopic, Microscopic features, examples of Protein,	01	
12		Hydropic, Hyaline, Mucoïd , fatty Degeneration	01	

13		Atherosclerosis- Defination, Pathogenesis, pathology, Effects.	01	
14		Amylodosis- Defination, Classification, Hyperlipidaemia, Lipidosis, classes of lipoprotein and their role.	02	
15		Necrosis- Defination, Types, Aetiology, Morphology, Fate.	02	
16	September	Apoptosis Physiological and pathological process Defination, Types, Aetiology, Morphology, Fate	02	Blackboard Chalk method Seminar Tutorials Discussion.
17		Gangrene- Defination, Aetiology, Macroscopic and Microscopic features, line of treatment of Dry, Moist, Gas Gangrene. Difference between Dry and Moist.	02	
18		Distarbances of Metabolism Bilirubin, Calcium, Purine, Carbohydrates, Lipid.	02	
19		Pathological Calcification- Dystrophic Calcification-Types, Causes, Pathogenesis. Metastatic Calcification-Aetiology, Pathogenesis, Sites.	02	
20		Disturbances of Pigmentation- Exogenous pigmentation. Endogenous pigmentation.	02	
21		October	Disturbances of Circulation Thrombosis Defination, Pathogenesis, Morphology, Types with Origin, Examples, Fate.	
22	Embolism Defination, Types, Sources, Complications.		02	
23	Ischaemia Defination, Aetiology, Pathology, Effects, Factors determining the severity of ischaemic effect.		01	
24	Infarction Defination, Aetiology, Types, Pathogenesis, Microscopic and Macroscopic features, Fate.		02	
25	Infarction Defination, Aetiology, Types, Pathogenesis, Microscopic and Macroscopic features, Fate.		01	
26	Shock Defination, classification,types, aetiology,general pathogenesis of different types of shock.		04	

		Stages of Shock. Basic guidelines for the management and treatment of different types of shock.		
27	November	Haemorrhage Defination, Aetiology, Types, Effects. Arrest of Haemorrhage.	01	Blackboard Chalk method Seminar Tutorials Discussion.
28		Oedema Defination, Types, Pathogenesis of each type like Renal oedema, Cerebral oedema, Pulmonary oedema, Cardiac oedema.	02	
29		Difference between transudate and exudate. Difference between Nephrotic and Nephritic oedema.	02	
30		Neoplasia Defination, Characteristics, Classification, Types with examples of each type Difference between Benign and Malignant tumors. Spread of Tumours, metastasis Grading and Staging of Cancer. Carcinogenesis and Carcinogens.	05	
31		Infection Defination, Sources, Aetiology, Routes of transmission, Common hospital, acquired infections	02	
32	December	Immunity Defination, Classification, immune cells. Development of Immune system T cells and cell mediated immunity. B cells and humoral immunity. Antigen, Antibody, Antigen Antibody reactions. Hypersensitivity, Suseptibility. IMMUNDEFICIENCY DISORDERS Autoimmune disorders VITAL FORCE and its role in health, disease, recovery, cure and other immune responses.	07	Blackboard Chalk method Seminar Tutorials Discussion.
33		SYSTEMIC PATHOLOGY Malnutrition and Deficiency Diseases Protein-kwashiokar ,marasmus. Vitamin deficiencies	02	
34	January	Diseases of Cardiovascular System Review of Anatomy and Physiology. Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical	10	Blackboard Chalk method Seminar

		presentation, Laboratory diagnosis, Complications, Miasmatic cleavage with Homoeopathic approach in line of treatment of following.... Diseases of Pericardium-Pericarditis Diseases of Myocardium-Ischemic heart disease, Cardiomyopathy, Heart Failure. Disease of Endocardium-Rheumatic heart Disease, Valvular heart disease, Bacterial endocarditis.		Tutorials Discussion.
35		Diseases of Blood vessels and Lymphatics Atherosclerosis, Varicositis, Thrombophlebitis, Lymphangitis, Lymphoedema, Aneurysm.	03	
36		Diseases of Haemopoetic System, Bone marrow, Blood cells Review of Anatomy and Physiology. Definition, Types, Aetiopathogenesis, Macroscopic and Microscopic features, clinical presentation, Laboratory diagnosis, Complications, Miasmatic cleavage with Homoeopathic approach in line of treatment of following.... Anaemia, Haemoglobinopathies, Leucocytosis, Leucopenia, Leukaemias. Lymphomas, Infectious mononucleosis. Bleeding disorders like ITP, DIC, TTP.	05	
37	February	Diseases of Respiratory System Obstructive lung diseases like Asthma, Emphysema, Chronic Bronchitis, Bronchiectasis Restrictive Lung Disorders like Acute Respiratory Distress syndrome, Chronic pulmonary fibrosis, Sarcoidosis, Hypersensitive Pneumonitis, Pulmonary haemorrhage, Hydrothorax, Haemothorax, Pneumothorax, Cyclothorax. Vascular lung diseases like Pulmonary thromboembolism, Infarction, Hypertension. Infective Lung Disorders like Pneumonia, Tuberculosis, Fungal, lung abscess, Pleuritis, Pleurisy. Atelectasis. Tumours of lung- Benign and Malignant.	14	Blackboard Chalk method Seminar Tutorials Discussion
38	March	Diseases of Gastro Intestinal Tract Review of Anatomy and Physiology. Definition, Types, Aetiopathogenesis, Macroscopic and Microscopic features, clinical presentation, Laboratory diagnosis, Complications,	10	Blackboard Chalk method Seminar Tutorials

		<p>Miasmatic cleavagewith Homoeopathic approach in line of treatment of following....</p> <p>Oral cavity-Stomatitis, Glossitis, Lichen planus</p> <p>Stomach-Acute gastritis, Chronic gastritis, Duodenal Ulcer, Gastric Ulcer</p> <p>Enterocolitis, Malabsorption Syndrome, Appendicitis, Intestinal obstruction, Intussusception, Volvulus.</p> <p>Inflammatory Bowel diseases like Chron’s disease, Ulcerative colitis,Tubercular Ulcer, Typhoid Ulcer. Ca. colon, Peritonitis.</p>		Discussion
39		<p>Diseases of Liver, Gall bladder , Duct</p> <p>Review of Anatomy and Physiology.</p> <p>Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical presentation, Laboratory diagnosis,Complications, Miasmatic cleavagewith Homoeopathic approach in line of treatment of following....</p> <p>Hepatitis-Acute and Chronic, Jaundice.</p> <p>Cirrhosis of Liver, Cholecystitis.</p>	05	
40		<p>Diseases of Pancrease</p> <p>Review of Anatomy and Physiology.</p> <p>Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical presentation, Laboratory diagnosis,Complications, Miasmatic cleavagewith Homoeopathic approach in line of treatment of following....</p> <p>Acute and Chronic Pancreatitis</p> <p>Diabetes mellitus.</p> <p>Ca.pancreas.</p>	03	
41		<p>Diseases of eye, neck, throat-ENT</p> <p>Review of Anatomy and Physiology.</p> <p>Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical presentation, Laboratory diagnosis,Complications, Miasmatic cleavagewith Homoeopathic approach in line of treatment of following....</p> <p>Eye- Stye, Chalizion, Endophthalmitis, Conjunctivitis.</p> <p>Ear- Otitis</p> <p>Throat- Allergic rhinitis, Sinusitis, Tonsillitis, Quincy.</p>	04	

42	April	<p>Diseases of Kidney and Lower urinary tract Review of Anatomy and Physiology. Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical presentation, Laboratory diagnosis,Complications, Miasmatic cleavagewith Homoeopathic approach in line of treatment of following.... Acute renal failure, Chronic renal failure, Glomerular diseases. Acute Nephritic and Nephrotic syndrome. Acute pyelonephritis, Chronic pyelonephritis Nephrolithiasis, Renal Hypertention. Renal vascular diseases.</p>	10	Blackboard Chalk method Seminar Tutorials Discussion
43		<p>Diseases of Male Reproductive System Review of Anatomy and Physiology. Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical presentation, Laboratory diagnosis,Complications, Miasmatic cleavagewith Homoeopathic approach in line of treatment of following.... Orchitis, Epididimitis, Balanoposthitis,Prostitis Ca.prostate.</p>	02	
44		<p>Diseases of Female Reproductive System Review of Anatomy and Physiology. Defination, Types, Aetiopathogenesis, Macroscopic anf Microscopic features, clinical presentation, Laboratory diagnosis,Complications, Miasmatic cleavagewith Homoeopathic approach in line of treatment of following.... Bartholini's adenitis, Vaginitis, Cervicitis, Salphingitis, Pelvic Inflammatory Disease. Acute Mastitis ,Breast abscess. Endometritis, myometritis. Benign and malignant tumours of Uterus, Breast, Cervix.</p>	02	
45		<p>Diseases of Glands Goiter, Hyperthyroidism, Hypothyroidism. Thyroiditis, thyrotoxicosis.</p>	03	
		<p>Diseases of Skin, Soft tissue, Musculoskeletal system Dermatosis, Osteomyylitis, Gout, Osteoporosis, Osteoarthritis</p>	03	

		MICROBIOLOGY	25	
01	July	History of Microbiology with contributions of great scientist like Leeweenhook, Robert Koch, Hans Gristian Gram, Louis Pasteur, Alexander Fleming, Luria, Macnicoff.	01	Blackboard Chalk method Seminar Tutorials Discussion
02		Kingdom Protista—Eukaryotes, Prokaryotes. Normal bacterial flora.	01	
03		Morphological study of Bacterial cell Staining and classification of Bacterial cell. Structure of Bacterial cell, Spore, Culture of Bacteria.	02	
04	August	Sterilization- Defination, Methods with examples like Flaming, Pasturization, Hotair oven, Autoclav, Filtration, uses of radiation and ionizing radiation,Characteristics of disinfectant.Antimicrobial chemotherapy.	04	Blackboard Chalk method Seminar Tutorials Discussion DEmonstration
05		Study of Bacterial Morphology, Culture characteristic, Pathogenesity, Clinical features, Laboratory diagnosis of following- Gram positive Aerobic cocci-- Staphylococci, Streptococci, Pneumococci.	03	
06	September	Gram negative aerobic cocci-- Neisseria meningitides, gonococci .	02	
		Gram positive anaerobic— Peptostreptococci, clostridium lactobacillus	02	
		Gram positive aerobic bacilli— Corynaebacterium diphtheria, Mycobacterium tuberculosis, Mycobacterium leprae.	04	
09	October	Gram positive anaerobic bacilli— Clostridium perfringens, tetani, botulinum,welchii..	03	

10		Gram negative anaerobic— Bacteroides fragillis, Fusobacterium	01	Blackboard Chalk method Seminar Tutorials Discussion
11		Gram negative anaerobic— Bacteroides fragillis, Fusobacterium	01	
12	November	Fungi--- Classification, true and appportunistic infection.	01	
		Parasitology	20	
13		Protozoa Morphology, Life cycle, Pathogenesity, Clinical features, Laboratory diagnosis of Entamoeba hystolytica, Giardia intestinalis, Tricomonas vaginalis, Toxoplasma gondii, Plasmodium, Leishmania donovani.	05	
14	December	Helminths Morphology, Life cycle, Pathogenesity, Clinical features, Laboratory diagnosis of Cestodes Taenia saginata, Taenia solium, Echinococcus	05	
15		Helminths Morphology, Life cycle, Pathogenesity, Clinical features, Laboratory diagnosis of Cestodes Taenia saginata, Taenia solium, Echinococcus	05	
16	January	Nematode Ancylostoma duodenale, Ascaris lumbricoids, Enterobius vermicularis, Wucheria bancrofti, Trichuria trichuris, Dracanculus medinensis.	05	
		Virology	10	
17	February	Introduction General properties of viruses	01	
18		Classification of DNA and RNA viruses. Morphology and replication of viruses.	01	
19		DNA Viruses Morphology, pathogenesity, clinical features, Laboratory diagnosis, line of treatment of --- Herpes virus, Varicella, CMV, EBV Hepatitis virus-A,B,C,E Pox virus	05	

20	March	RNA viruses Orthomyxo virus-Influenza virus Entero virus-Polio virus. Paramyxo virus- Rubeola Mumps virus. Rhabdo virus-Rabis virus. Retro virus- HIV Dengue and Chikengunia virus.	05	Blackboard Chalk method Seminar Tutorials Discussion
	April	Clinical Microbiology	02	Blackboard Chalk method Seminar
21		Clinically important Microorganisms with their clinical presentation and lab. Diagnosis .	01	Tutorials Discussion Demonstrations
22		Immunoprophylaxis- Artificial active immunity Vaccination-Live , Killed with features of bacterial and viral. Antibiotic sensitivity test-uses, importance.	01	
23		Diagnostic procedures like Blood, urine, stool examination. Immunological tests. Culture methods, Animal inoculation	04	
		PRACTICALS	80	
1	July	Uses and handling of Microscope. Demonstration of Electron microscope and Phase contrast microscope.	03	Demonstrations and Practicals
2		Hazards and safety measures in Lab.	01	
3	August	All practicals below are done with sample collection, procedure, calculations when needed, result with logical interpretation . Haematology— Estimation of haemoglobin, TC , RBC, WBC count Differential count, ESR BT, CT	10	
4	September	Urine Examination—	06	

		Physical, Chemical, Microscopic		Demonstrations and Practicals	
5		Stool Examination— Physical, Chemical, Microscopic	06		
6	October	Liver function tests SGOT,SGPT,Bilirubin Normal value sand altered results with Clinical significance	03		
7		Renal function test Serum creatinine, blood urea, Normal values and altered values with Clinical importance	03		
8	November	Lipid profile tests Normal and altered values with clinical Significance	03		
9		CSF examination Physical and chemical analysis Normal and altered values with clinical Significance.	03		
10	December	Serological tests VDRL, WIDAL,PREGNANCY, HIV, Mountox tests with their Clinical significance.	06		
11		Gram Staining Sample collection, Procedure, result With examples.	06		
12		Acid fast Staining Sample collection, Procedure, Result. With example.	06		
		Instruments			
13	January	Identification, Description, Uses of Incubator, Hot air oven, Autoclave, Centrifuge machine Petridish, Ph comparator, NIH swab, Fine biopsy needle, ESR tubes and stand Haemocytometer, Haemometer Water bath, Urinometer, Glucometer Albuminometer,VDRL slide, Cavity slide, Different agars.	10		Demonstrations and Practicals.
		HISTOPATHOLOGY			
14	February	Hlstopathological techniques like Fixation, Embedding, Staining etc	03	Demonstrations and Practicals .	

15		Histological slides Acute appendicitis Chronic appendicitis. Squamous cell carcinoma. Basal cell carcinoma. Goiter. TB lymphnode TB lung Calcification of primary complex. Blood picture of different anaemias. Plasmodium types smear. Antaemoeba histolytica	10	Demonstrations and Practicals.
	March	Specimen		
16		Macroscopic and Microscopic Features of following-- Pneumoconiosis Cirrhosis of Liver. Intestinal Ulcers Macroscopic and Microscopic Features of following-- Pneumoconiosis Cirrhosis of Liver. Intestinal Ulcers	06	Demonstration

Sr. no	Distribution of syllabus topic wise	Total number of hours taken
1	Lectures	202
2	Practicals	85
3	seminar	05
4	Demonstration	10

SR. NO	NAME	DESIGNATION	Syllabus allotted	Lectures in hours	Practicals in hours	Total
1	DR. Smita Suresh Patil	Professor	General pathology Systemic Pathology Microbiology	162		162
2	Dr. Ganesh Dhanu Gavhane	Associate Professor	Practicals Demonstrations Seminars	05	95	100
3	Dr. Pushkar Mahajan	Associate Professor	Parasitology	40		40
4	Dr. Ramesh Mahajan	Guest Faculty	Clinical Pathology	10		10

Laboratory Technician and Assistant staff--

1	Snehal Devre	Lab technician	Assist. Practicals	Daily
2	Ravindra Bari	Lab. Attendant	Assist. Lab. and Dept	Daily