

# Gulabrao Patil Homoeopathic Medical College, Miraj

Ref. No. :

Date :



## ANNEXURE - IV

### DEPT. OF PATHOLOGY & MICROBIOLOGY

Academic Year 2021 - 2022

Academic Activities/Webinar/Workshop/CME/Activities in Last One Year.

College Code : 4205

Academic Planner/Advanced Teaching Plan Time Table (Year wise)  
Details from 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021

Sr. No.	Details	Total Number in Hours
1.	Lecture	240
2.	Symposium	04
3.	Practical/Clinics	240
4.	Inter-Departmental Seminars	-
5.	Seminar	10
6.	Case presentation	05
7.	Journal Club	02

No. of Webinars Arranged, Guest Lectures, Workshops & CME (Publish details on college website)

Sr no.	Details of webinar, guest lectures, workshops & CME
1- WEBINAR	Online webinar conducted by Dr.Ajay CHOUTHAI sir was co chairman for Recent Lab investigation in TUBERCULOSIS held by the - Pathologist Association Maharashtra-in 10 jan 2022
2- GUEST LECTURE	Guest lectures in Dy.patil medical college kolhapur- immunohistologicalchemistry on hand training in 11 & 12 April 2021



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Principal

Gulabrao Patil Homoeopathic  
Medical College, Miraj

795, Gulabrao Patil Educational Campus,  
Near Govt. Milk Dairy, Miraj - 416 410.  
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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

### STAFF LIST

Sr. No.	Name of Staff	Designation	Qualification
01	DR. AJAY CHOUTHAI	H.O.D & Professor	M.D ( Patho)
02	DR. SUKHADA JADHAV	Guest Asso. Professor	B.H.M.S
03	DR. SHWETA PATIL	Asst. Professor	M.D.(Hom)
04	MRS. U. V. NIRVANE	Lab. Technician	B.Sc. D.M.L.T



  
**Principal**  
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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

Advance Teaching Planner 2021-2022

August- 2021

**Dr. Ajay Chouthai**

- Introduction to Pathology
- Cell injury and Cellular Adaptation.

**Dr. Shweta Patil**

- Introduction to Parasitology, important terms in parasitology
- Host-parasite relationship.
- Characteristics of Nematodes, *Trichuris trichiura*, *Strongyloides stercoralis*

**Dr. Sukhada Jadhav**

- Introduction to Microbiology, History of Bacteriology, Robert Koch, Louis Pasteur
- Bacterial morphology, staining characteristics, structure, growth & nutrition.
- Sterilization and Disinfection.

September- 2021

**Dr. Ajay Chouthai**

- Introduction to Haematology and Erythroid series Haematopoiesis
- Introduction to Systemic Pathology
- Inflammation & Healing

**Dr. Shweta Patil**

- Ancylostoma duodenale*
- Ascaris lumbricoides*
- Enterobius vermicularis*
- Introduction, classification and types of Anaemia

**Dr. Sukhada Jadhav**

- Culture media, constituents, uses, types
- Culture methods
- Identification of Bacteria
- Infection
- Immunity ( humoral & cell mediated)

October 2021

**Dr. Ajay Chouthai**

- Oedema, Shock,
- Anaemia of Chronic disorders
- Haemolytic Anaemia
- Hereditary & Acquired anaemias

**Dr. Shweta Patil**

- Wuchereria bancrofti*
- Dracunculus medinensis*



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Ref. No. :

Date :

Hypersensitivity reaction

Auto-immune diseases

Hypochromic anemias

Dr. Sukhada Jadhav

Collection of blood

Streptococci

Staphylococci

November 2021

Dr. Ajay Chouthai

Thrombosis & Embolism

Aplastic anaemia

Pure red cell anaemia

Liver function tests

Dr. Shweta Patil

Introduction to Respiratory system

Pneumonia

COPD

Characteristics of Cestodes & Trematodes

Echinococcus granulosus

Taenia solium & Taenia saginata

Dr. Sukhada Jadhav

Pneumococci

Nisseria, meningococci, gonococci

Corynebacterium diphthiae

December 2021

Dr. Ajay Chouthai

Introduction and classification of Neoplasia

Liver cirrhosis

Biliary system

Pancreatitis( acute & chronic)

Ca.pancreas, colon,rectum.

Dr. Shweta Patil

Schistosoma haematobium

Schistosoma japonicum

Schistosoma mansoni

Interstitial lung diseases

Bronchogenic carcinoma

Gastro-intestinal system, stomatitis,

Gastritis, peptic ulcer



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Ref. No. :

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**Dr. Sukhada Jadhav**

Clostridium tetani  
E-coli  
Salmonella  
WIDAL test  
Shigella  
VDRL test

January 2022

**Dr. Ajay Chouthai**

Jaundice  
Haemolytic disease of new born  
Renal function tests  
Glomerulonephritis

**Dr. Shweta Patil**

Characteristics of Protozoa  
Entamoeba histolytica  
Giardia lamblia  
Leishmania donovani  
Irritable bowel syndrome

**Dr. Sukhada Jadhav**

Vibrio cholerae  
Mycobacterium tuberculosis  
Mycobacterium leprae  
Lepramine test  
Tuberculin test

February 2022

**Dr. Ajay Chouthai**

Acute & Chronic Renal failure  
Nephrolithiasis  
Nephrotic syndrome  
Nephritic syndrome

**Dr. Shweta Patil**

Iron deficiency anaemia  
Megaloblastic anaemia  
Malarial parasites

**Dr. Sukhada Jadhav**

Spirochates types  
General characters and classification of virus  
Viral infection

**Laboratory diagnosis of viral disease**

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Ref. No. :

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March 2022

**Dr. Ajay Chouthai**

Melanoma  
Squamous cell carcinoma  
Endocrinial disorders  
Functional disorders of Thyroid gland

**Dr. Shweta Patil**

Pernicious anaemia  
Musculoskeletal system

**Dr. Sukhada Jadhav**

Hepatitis virus  
HIV virus  
Herpes virus  
Gram staining  
Z-N staining

April 2022

**Dr. Ajay Chouthai**

Diabetes mellitus  
Cardio- vascular system  
Ishaemic heart disease  
valvular heart disease  
Myocardial infarction

**Dr. Shweta Patil**

Clinical parasitology  
Angina pectoris  
Occupational diseases

**Dr. Sukhada Jadhav**

Pox virus  
Paramyxo virus  
Orthomyxo virus  
Meningitis

May 2022

**Preliminary examination**

June 2022

**MUHS examination**

July 2022

**MUHS examination**



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## YEARLY PLANNER [2021-2022] MICROBOLGY & PRACTICAL PATHOLOGY

DR. SUKHADA JADHAV

### MICROBIOLOGY

#### MAY

- INTRODUCTION OF MICROBIOLOGY
- HISTORY OF BACTERIOLOGY
- ROBBERT KOCH, LOUIS PASTURE
- BACTERIAL MORPHOLOGY – STRUCTURE – STANNING
- GROWTH & NUTRITION OF BACTERIA
- STERILIZATION & DISINFECTION
  - AUTOCLAVE
  - HOT AIR OVEN
  - TYPE APPLICATION
- CULTURE MEDIA -CONSTITUENTS, USES, TYPE
- CULTURE METHODS
  - INOCULATING PLATINUM LOOP
  - MACINTOSH FIELDS JAR
- B.T. & C.T.
- STAPHYLOCOCCUS
- IDNTIFICATION OF BACTERIA
  - ELAVATION OF COLONIES
  - EDGES MORPHOLOGY
  - RESISTANCE CULTURE MEDIA
  - BIOCHEMICAL TEST
- INFECTION
  - CLASSIFICATION
  - SOURCE
  - TYPE
  - METOD OF TRANSMISSION PATOGENICITY
  - VIRULENCE
- INFACTING DOSE
- ROUTE OF NFECTON
- EXOTOXIN & ENDOOXIN
- IMMUNITY – ACTIVE & PASSIVE



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- ANTIGEN – ANTIBODY REACTION
- HYPERSENSITIVITY
- COLLECTION OF BLOOD
- HB ESTIMATION
- ANAEMIA – CLASSIFICATION & TYP
- BLOOD DISORDER
- BLOOD GROUP
- BLOOD TRANSFUSION

## JUNE

- LAB DIAGNOSIS OF BACTERIAL DISEASE
- STREPTOCOCCI
- PNEUMOCOCCI
- NISSERIA-MENINGOCOCCI, GONOCOCCI
- CORYNEBACTERIA DIPHTHERIAE
- TOTAL RBC COUNT
- TOTAL WBC COUNT
- BLOOD INDICES

## JULY

- CLOSTRIDIUM TETAN
- ENTEROBACTERIACEAE – E.COLI
- SALMONELLA
- SHIGELLA
- DIFFERENT WBC COUNT
- ACUTE CHRONIC LEUKAMIA
- VDRL TEST
- WIDAL TEST

## AUGUST

- VIBRIOCHOLERA
- MYCOBACTERIUM LEPRACE
- MYCOBACTERIUM TUBERCULOSIS
- ANOTHER – BACILLUS, BRUCELLA, RICKETSIAE
- ABNORMAL CONSTITUENTS OF URINE
- LEPROMINE TEST
- TUBERCULINE TEST



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## SEPTEMBER

- SPIROCHATES-TYPE
- GENERAL CHARACTER
- CLASSIFICATION OF VIRUS
- VIRAL INFECTION
- LAB DIAGNOSIS OF VIRAL DISEASE
- HEPATITIS VIRUS
- HIV VIRUS
- GRAM STANING
- Z-N STANNING
- INSTRUMENT
  - ALBUMINOMETER
  - URINOMETER
  - WSR STAND
  - WINTROBES TUBE
  - WESTERGREEN TUBE/ PIPETTE

## OCTOBER

- POX VIRUS
- HERPES VIRUS
- ORTHAMYXO VIRUS
- PARAMYXO VIRUS
- LIVER BIOPSY VIRUS
- LUMBAR PUNCTURE TRUE NEEDLE
- BONE MARROW ASPIRATION NEEDLE
- INSULINE SYRINGE

## NOVEMBER

- SPECIMEN OF
  - TERMATOMA
  - APPENDICTIUS
  - CA. UTERUS
  - CA. BREAST
  - LEOMYOMA
  - LIPOMA
- GALL STONE
- RENAL STONE CALCULI

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- DIFFERENCE BETWEEN BEING & MALIGNANT TUMOR
- DIFFERENCE BETWEEN BACILLARY & AMOEBIC DYSENTRY
- PARACITE SPECIMEN
- NIH SWAB
- LAB DIAGNOSIS OF KALA-AZAR

## DECEMBER

- RESPIRATORY TRACT INFECTION
- DIARRHOEAL DISEASES
- FOOD POISONING
- URINARY TRACT INFECTION
- PYREXIA OF UNKNOWN ORIGIN
- BACTEREMIA SEPTICEMIA
- SEXUALLY TRANSMITTED DISEASE
- HOSPITAL ACQUIRED/ NOSOCORRIAL
- MENINGITIS
- SEPIIS [INFECTION OF SKIN, WOUNDS, BURN, EYES]

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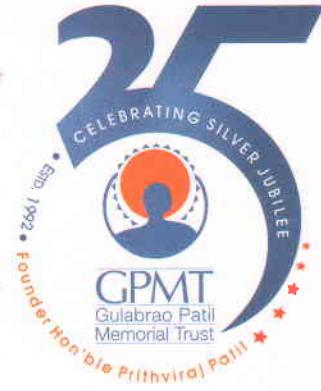
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## DEPARTMENT OF PATHOLOGY AND MICROBIOLOGY

### Syllabus Distribution 2021-2022

Dr.Ajay Chouthai

August- 2021

Introduction to Pathology

Cell injury and Cellular Adaptation

September- 2021

Introduction to Haematology and Erythroid series Haematopoiesis

Introduction to Systemic Pathology

Inflammation & Healing

October 2021

Oedema, Shock,

Anaemia of Chronic disorders

Haemolytic Anaemia

Hereditary & Acquired anaemias

November 2021

Thrombosis & Embolism

Aplastic anaemia

Pure red cell anaemia

Liver function test

December 2021

Introduction and classification of Neoplasia

Liver cirrhosis

Biliary system

Pancreatitis( acute & chronic)

Ca.pancreas, colon,rectum.



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January 2022

**Jaundice**

**Haemolytic disease of new born**

**Renal function tests**

**Glomerulonephritis**

February 2022

**Acute & Chronic Renal failure**

**Nephrolithiasis**

**Nephrotic syndrome**

**Nephritic syndrome**

March 2022

**Melanoma**

**Squamous cell carcinoma**

**Endocrinial disorders**

**Functional disorders of Thyroid gland**

April 2022

**Diabetes mellitus**

**Cardio- vascular system**

**Ishaemic heart disease**

**valvular heart disease**

**Myocardial infarction**

May 2022

**Preliminary examination**

June 2022

**MUHS examination**

July 2022

**MUHS examination**



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## Syllabus Distribution 2021-2022

Dr. Sukhada Jadhav

August- 2021

**Introduction to Microbiology, History of Bacteriology, Robert Koch, Louis Pasteur  
Bacterial morphology, staining characteristics, structure, growth & nutrition.  
Sterilization and Disinfection.**

September- 2021

**Culture media, constituents, uses, types  
Culture methods  
Identification of Bacteria  
Infection  
Immunity ( humoral & cell mediated)**

October 2021

**Collection of blood  
Streptococci  
Staphylococci**

November 2021

**Pneumococci  
Nisseria, meningococci, gonococci  
Corynebacterium diphthiae**

December 2021

**Clostridium tetani  
E-coli  
Salmonella  
WIDAL test  
Shigella  
VDRL test**



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January 2022

- Vibrio cholerae**
- Mycobacterium tuberculosis**
- Mycobacterium leprae**
- Lepromine test**
- Tuberculin test**

February 2022

- Spirochates types**
- General characters and classification of virus**
- Viral infection**
- Laboratory diagnosis of viral disease**

March 2022

- Hepatitis virus**
- HIV virus**
- Herpes virus**
- Gram staining**
- Z-N staining**

April 2022

- Pox virus**
- Orthomyxo virus**
- Meningitis**

May 2022

- Preliminary examination**

June 2022

- MUHS examination**

July 2022

- MUHS examination**



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## Syllabus Distribution 2021- 2022

Dr. Shweta Patil

August- 2021

Introduction to Parasitology, important terms in parasitology

Host-parasite relationship.

Characteristics of Nematodes, *Trichuris trichiura*, *Strongyloides stercoralis*

September- 2021

*Ancylostoma duodenale*

*Ascaris lumbricoides*

*Enterobius vermicularis*

Introduction, classification and types of Anaemia

October 2021

*Wuchereria bancrofti*

*Dracunculus medinensis*

Hypersensitivity reaction

Auto-immune diseases

Hypochromic anemias

November 2021

Introduction to Respiratory system

Pneumonia

COPD

Characteristics of Cestodes & Trematodes

*Echinococcus granulosus*

*Taenia solium* & *Taenia saginata*



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December 2021

Schistosoma haematobium  
Schistosoma japonicum  
Schistosoma mansoni  
Interstitial lung diseases  
Bronchogenic carcinoma  
Gastro-intestinal system, stomatitis,  
Gastritis, peptic ulcer

January 2022

Characteristics of Protozoa  
Entamoeba histolytica  
Giardia lamblia  
Leishmania donovani

February 2022

Iron deficiency anaemia  
Megaloblastic anaemia  
Malarial parasites

March 2022

Pernicious anaemia  
Musculoskeletal system

April 2022

Clinical parasitology  
Angina pectoris, Occupational diseases

May 2022

Preliminary examination

June 2022

MUHS examination

July 2022

MUHS examination



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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY LIST OF DEPARTMENTAL LIBRARY

Sr. No.	Name of book	Acess no.	Author
1	T.B of Pathology 7 <sup>th</sup> edition	1394	Harsh Mohan
2	Quick Review Pathology 8 <sup>th</sup> edition	14434	Harsh Mohan
3	Practical Pathology 4 <sup>th</sup> edition	14073	Harsh Mohan
4	T.B of Microbiology 9 <sup>th</sup> edition	13672	Ananthnarayan & Paniker's
5	Clinical Pathology	14067	S Kawthalkar
6	Medical Parasitology 7 <sup>th</sup> edition	14069	Paniker's
7	T.B of Medical Microbiology	11840	Satish Gupte
8	Practical Examination in Microbiology	14186	Patwardhan
9	Medical Microbiology	14457	A Shastri
10	MCQ in Pathology	7201	A Shah
11	MCQ in Pathology	7189	M Bharadwaj
12	Microbiology MCQ	7165	Sharma



  
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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

### EQUIPMENT PROVIDED 2021-2022

Detail of items / Equipment etc. available as per Schedule-III of HCC (MSR) Regulations.

SR. NO.	ITEMS	REQUIREMENTS	AVAILABLE
1	1 HOT AIR OVEN	01	01
	2 CENTRIFUGE MACHINE ELECTRIC	02	02
	3 WATER BATH	04	04
	4 GLASS WARE, STAINES, CHEMICAL REAGENTS FOR HISTOPATHOLOGY	AS REQUIRED	AS REQUIRED
	5 INCUBATOR	02	02
	6 HAEMOCYTOMETER FOR RBC & WBC PIPETTE	25	25
	7 HAEMOGLOBINOMETER	25	25
	8 AUTOCLAVE	02	02
	9 ANAEROBIC APPARATUS	02	02
	10 STOPWATCH	02	02
	11 Ph meter	01	01
	12 Microscope	25	25
	13 High speed centrifuge for serological/ Haematological work	01	01
	14 ESR	02	02
	15 Colony counter	01	01
	16 Material for preparation of media	As required	As required
	17 Material for preparation of stain	As required	As required
	18 Coplin Jar	02	02
	19 Computer with accessories	01	01
	20 Machine for estimation of blood sugar	01	01
	21 Pathological specimen	25	131
2	Total no of chart		51
3	Total no. of models		05
4	No. of additional items		58



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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

### HISTOPATHOLOGICAL SLIDES CHART LIST

1. ACUTE APPENDICITIS
2. CHRONIC APPENDICITIS
3. GRANULATION TISSUE
4. TB LYMPH NODE
5. TB LUNG
6. FATTY LIVER
7. COLLOID GOITER
8. FIBROADENOMA BREAST
9. BASAL CELL CARCINOMA
10. SQUAMOUS CELL CARCINOMA
11. SQUAMOUS PAPILLOMA
12. OSTEOSARCOMA BONE



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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

### LIST OF CHART

1. PIONEERS OF PATHOLOGY AND MICROBIOLOGY
2. COMPOUND MICROSCOPE
3. DIARRHOEA
4. PATHOGENIC PROTOZOA
5. MORPHOLOGY OF TEANIA SOLIUM
6. TYPHOID
7. E.COLI
8. LIFE CYCLE OF TEANIA SOLIUM
9. LIFE CYCLE OF TEANIA SAGINATA
10. LIFE CYCLE OF ANCYLOSTOMA DUODENALE
11. LIFE CYCLE OF TRICHURIS TRICHURA
12. LIFE CYCLE OF ENTAMOEBA HISTOCYTICA
13. MORPHOLOGY OF ENTAMOEBA HISTOCYTICA
14. HEART ATTACK CHOLESTEROL ESTIMATION
15. HUMAN CIRCULATORY SYSTEM
16. LIFE CYCLE OF PLASMODIUM
17. ASCARIS LUMBRICOID STRUCTURE
18. MORPHOLOGY OF ECHINOCOCCUS GRANULOSUS
19. FILARIASIS (L.H)
20. MORPHOLOGY OF ANCYLOSTOMA (HOOK WORM)
21. LIFE CYCLE OF ANCYLOSTOMA DUODENALE
22. LIFE CYCLE OF PLASMODIUM
23. SPREAD OF PARASITIC INFECTION TO MAN
24. LABORATORY DIAGNOSIS OF KALA AZAR
25. DEFENCE OF VITAMINS
26. ACUTE MYELOBLASTIC & CHRONIC MYELOID LEUKAEMIA



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27. ACUTE LYMOBLASTIC & CHRONIC LYMPHOCYTIC LEUKAEMIA
28. DIFFERENCE BETWEEN ACUTE RHEUMATIC FEVER & ACUTE GLOMERULONEPHRITIS
29. DIFFERENCE BETWEEN OBSTRUCTIVE & HEPATOCELLULAR
30. ARRANGEMENT OF BACILLI
31. ARRANGEMENT OF COCCI
32. ARRANGEMENT OF CURVED BACTERIA
33. TYPES OF BACTERIAL SPORES
34. DIFFERENCE BETWEEN EXOTOXIN & ENDOTOXIN
35. DIFFERENT TYPES OF VIRUSES
36. CLASSIFICATION OF ANAEMIA
37. IRON DEFICIENCY ANAEMIA
38. HAEMOLYTIC ANAEMIA
39. MEGLOBLASTIC ANAEMIA
40. DIMORPHIC ANAEMIA
41. MICROCYTIC HYPOCHROMIC ANAEMIA
42. THROMBOCYTOPENIA
43. CAUSES OF APLASTIC ANAEMIA
44. MORPHOLOGIC ABNORMALITIES OF RED CELL
45. GALL STONE
46. CAUSES OF PANCYTOPENIA
47. CELLULAR RESPONSE OF CELL INJURY
48. MORPHOLOGY & FUNCTION OF INFLAMMATORY CELL
49. DIFFERENCE BETWEEN ACTIVE IMMUNITY & PASSIVE IMMUNITY
50. DIFFERENCE BETWEEN SARCOMA & CARCINOMA
51. CONTRASTING FEATURES OF BENIGN & MALIGNANT TUMOR
52. CLASSIFICATION OF CULTURE MEDIA



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**Gulabrao Patil Homoeopathic**  
**Medical College, Miraj**

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## DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

### LIST OF TRANSPARENT SHEETS

1. Difference between Bacteria/Virus & Protozoa
2. Grams Staining
3. Viruses
4. Hepatitis Virus
5. Protozoa Cysts
6. Cell Mediated & Humoral Immunity
7. Lymphatic drainage & cervical L N
8. Lymphatic Vessel disorders
9. Lymphedema
10. Chronic Venous Ulcer
11. Hemangioma / Actinomycosis
12. Neurofibromatosis
13. Tumors of Face / Epi. Cell
14. Neoplasm
15. Sebaceous Cyst / Melanoma
16. Ulceraticeus
17. Pharyngeal pouch non development
18. Thyroglossal cyst & Goiter
19. Neoplasms of Oral cavity
20. Parotid tumor
21. Tumors of Parotid
22. Breast N. & diseases
23. Breast Microscopy
24. Disorders of nipples
25. Nipple diseases
26. Fibroadenoma breast



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27. Fibroadenoma breast
28. Breast abscess
29. Breast diseases
30. CA – Breast
31. Gastric Ulcer
32. Gastric duodenal ulcer
33. Appendix & Sigmoid colon
34. Appendicitis
35. Diverticular diseases of colon
36. Cystic enlargement of kidney
37. Disorders of male genitalia
38. Endocrine disorders
39. Sq. & Breast cell carcinoma
40. Ca. of ileum & acute appendicitis
41. Ca. Pancreas
42. Bone Neoplasia
43. Ca – Panis
44. Hematological apparatus
45. Hematological sample collection
46. Blood group Rh & Ng.
47. Urinary cysts & stone
48. Normal value of blood plasma constituents
49. Hydatid diseases
50. Stool Exam. Helminthic eggs.



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