

## Department Of Pathology

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**Click [HERE](#) for IMR Details**



### **Penta Head Microscope (Nikon ECLIPSE 80 i)**

This Multi Viewing Demonstration Microscope is Designed for Several People to Observe one specimen together at the same time. It has Infinity Imaging Intensity, High Light Intensity illumination system, sharp and clear image and consistent image in observation. Particularly, it is suitable for application in clinic research and education. It supply more bigger space for observe, making working more comfortable.



### **Binocular Microscope (Olympus)**



### **Cryostat Microtome (Yorco)**

Uses

1. On OT Table: Rapid Diagnosis, Assessing Margins, confirm/refute metastasis.
2. Demonstration of fat which is lost during routine processing.
3. Demonstration and research enzyme histology.
4. Used for Immuno-histochemistry methods.
5. Used in Application of Silver method particularly in neurology.



### **Tissue Processor Automatic (Yorco)**

Uses:

1. To perform fixation, dehydration and clearing and infiltration of histological specimen.
2. Used for rapid and Automatic Processing of varied specimen of all histological specimens.



### **Thermostat (Yorco)**



### **Thermo fischer slide strainer**

**Thermo scientific/varistain Gemini**



### **Microtome (Micro-Tcc)**

These are the machines that cut extremely thin sections from a sample for applications in histology.

Rotatory Microtome:- Suitable for cutting of small tissues & serial sections.

### **Water Bath**

Temperature of this Water Bath is kept at 10` C Below the Melting point of paraffin (Help Remove Wrinkles). Then they are picked up on a glass microscope slide.



**Vaccum Oven ( Labotech)**



**Gross Cutting Station**



**(A) Laboratory Centrifuge (REMI Equipments)**

Uses:- Separation of gas, fluid and liquid based on density which is achieved by spinning a vessel containing material at high speed. Centrifugal forces pushes heavier material to outside of vessel.

**(B) Serological Water Bath (Yorco Scientific Industries, Delhi)**

Uses:-

1. Incubate Sample in Water at a constant temperature over a longer time period.
2. Used for warming of Reagent, Melting of Substrate and Incubation of Culture & Enable Certain chemical reaction to occur at high temperature.



**Thermostat (Yorco Scientific Industries, Delhi)**



**ARTOS VERSATILE BIOCHEMISTRY ANALYSER**

Uses:- Serum Biochemistry.



**Biochemistry Analyser (Lab Life Chemistry Master)**

Uses:- Serum Biochemistry Analysis



**5 Part CBC Machine (EDIF)**

Total Blood Cell Count



**Centrifuge Machine (REMI-R8C)**

Uses:- To Centrifuge Blood & Urine for Examination



**CBC Machine (HORIBA)**

Blood Cells Count



**PT Analyser (FISHER Company)**

To know about PT & aPTT



**Urine Analyser (QDx Urilyzer)**  
Examination of Urine



**CBC Machine 5 parts (MELET SCHLOESING LABORATORY, FRANCE)**  
Uses:- Complete Blood Count (Neutrophils count, Eosinophil count, Lymphocyte count, Basophil count, Monocyte count)

### **DESSERTATION OF P.G. STUDENTS**

#### **Year 2014**

1. Comparative Study of Bone Marrow Aspiration and Biopsy - Dr. Manju
2. ``Extrapulmonary Tuberculosis`` A Histopathological Study- Dr. Rashmi Jain
3. Role of FNAC in the evaluation of neck masses- Dr. Ratna Rekha Fagna
4. Value of FINE NEEDLE ASPIRATION CYTOLOGY in Diagnosis of Thyroid lesion- Dr. Manish Kumar
5. Histopathological Study of Neoplastic and non Neoplastic tumourous Conditions in Nephrectomy Specimens- Dr. Mamta Mehra
6. Histopathological Study of Testicular Tumours in North West Rajasthan (Bikaner region)- Dr. Madhu Sudan Rankawat

#### **Year 2015**

1. Heamatological Profile of Dengue Viral Infection-A Study of recent Epidemic-2013 in North West Rajasthan- Dr. Omprakash Singh
2. Cytohistological grading of invasive breast Carcinoma- Dr. Dharam Chand Kothari
3. Study of Histopathological Spectrum of Upper GI Endoscopic Biopsies- Dr. Swati Pabbi
4. Histopathological Study of Carcinoma of the Prostate- Dr. Harsh Kumar Baid
5. Spectrum of Lesions in Urinary Bladder Biopsies-A Histopathological Study- Dr. Vaibhav Kumar Goyal
6. A Study of Ultrasound Guided Fine Needle Aspiration Cytology of Liver and Gall Bladder- Dr. Shashi Bhushan Tailor
7. A Histopathological Study of Endometrial Biopsy in Abnormal Uterine Bleeding-in North West Rajasthan -Dr. Neeraj Arora

#### **Year 2016**

1. Cytohistopathological Correlation in Palpable Breast Lesion- Dr. Kuldeep Mehra
2. Histopathological Study of Central Nervous System Lesion in North West Rajasthan (P.B.M. Hospital Bikaner) – Dr. Kailash Chand Jat

3. Histopathological Study of Neoplastic Lesions of Oral Cavity and Oropharynx- Dr. Hansa Choudhary
4. Study of Automated Urine Analysis in Type 2 Diabetes Mellitus Patients with Special Reference to Microalbuminuria- Dr. Naseem Akhtar Bihari
5. A Study of Hematological Abnormalities in Patients of Rheumatoid Arthritis- Dr. Susheela Kumari Godara
6. Histopathological evaluation of Skin Lesions- Dr. Rajvinder Kaur
7. Histopathological Study of thyroid lesions and correlation with Ultrasonography and thyroid Profile in Western Zone of Rajasthan- Dr. Durga Shankar Jaipal.

**Rate List of Investigation**

**(Investigation under Pathology Department)**

S.No.	INVESTIGATION	Rate in Rs.
<b>PATHOLOGY LAB</b>		
1.	HB-Haemoglobin	Free under MNJY
2.	TLC- Total Leukocyte Count	Free under MNJY
3.	DLC- Differential Leukocyte Count	Free under MNJY
4.	ESR- Erythrocytic Sedimentation Rate	Free under MNJY
5.	MP Slide Method	Free under MNJY
6.	BT- Bleeding Time	Free under MNJY
7.	CT- Clotting Time	Free under MNJY
8.	CBC- Complete Blood Count	Free under MNJY
9.	PBF- Peripheral Blood Film	Free under MNJY
10.	TEC- Total Eosinophilic Count	Free under MNJY
11.	Blood Group (Abo-Rh Typing)	Free under MNJY
12.	PT- Prothrombin Time Test INR	Free under MNJY
13.	APTT	150/-
14.	Pleural Fluid Cell Count	Free under MNJY
15.	Ascetic Fluid Cell Count	Free under MNJY
16.	Coombs Test-Direct	Free under MNJY
17.	Coombs Test-Indirect	Free under MNJY
18.	Semen Analysis Sperm Count (Manual)	Free under MNJY
19.	Cell Count Of Body Fluids (CSF, Pericardial & Syn)	Free under MNJY
20.	Total Red Blood Cell Count	Free under MNJY
21.	Platelet Count By Cell Counter	Free under MNJY
22.	Packed Cell Volume (PCV)	Free under MNJY
23.	Reticulocyte Count	10/-
24.	Urine Complete & Microscopic	Free under MNJY
25.	Urine Colcomplete (Alb. & Sugar)	Free under MNJY
26.	Urine Prophobilinogen	20/-
27.	Urine Urobilinogen	20/-
28.	Urine Bence James Protein	20/-
29.	Urine Bile Salt & Bile Pigment	
30.	Bone Marrow	25/-
31.	F.N.A.C.	50/-
32.	L.E. cell	20/-
33.	Foetal Haemoglobin	25/-
34.	Biopsy	50/-
35.	Pap` s Smear & other Cytological examination	50/-
36.	Coagulogrew	50/-

	<b>ROPD LAB</b>	
1.	CBC	Free under MNJY
2.	Urine (Microscopy)	Free under MNJY
3.	BT, CT	Free under MNJY
4.	PBF	Free under MNJY
5.	LFT	Free under MNJY
6.	RFT	Free under MNJY
7.	Blood Sugar	Free under MNJY
8.	ESR	Free under MNJY
9.	FNAC	50/-
10.	BM aspiration	25/-
11.	Cytochemistry (sudan black)	50/-