

MANUAL OF LABORATORY INVESTIGATIONS

Vardhman Mahavir Medical College

and

Safdarjang Hospital

Foreword

It has been very frequently observed that several patients/ patient relatives are wandering in OPD and wards for want of information regarding where they should submit the samples for various investigations viz. biochemistry, pathology, microbiology, lab medicine, hematology lab and Apex Regional STD lab. In addition, they do not know what are the timings of various sample collection counters, various report dispatch counters and their timings. This causes lot of inconvenience to public as the same information is not even available with their treating doctors. Due to this, the Public Grievance Redressal Cell (PGRC) receives lot of complainants everyday.

The PGRC, SJH under the chairmanship of Dr. R.K. Anand has taken initiative of compiling this comprehensive booklet to serve as a ready reference for the clinicians in the hospital so that they can appropriately guide the patients and their relatives regarding the sample collection counters and report dispatch counters for the various laboratory investigations.

The faculty and the residents of all clinical departments in the hospital are expected to consult this booklet and provide the requisite information to the patients while advising any laboratory tests.

I hope the booklet will serve its intended purpose well!

Dr Sunil Gupta
Medical Superintendent, Safdarjang Hospital

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DEPARTMENT OF PATHOLOGY

1. List of investigations –

TESTS DONE IN HISTOPATHOLOGY:

1. Routine H& E staining,
2. Frozen section and scrape Cytology,
3. Special Stains,
4. Immunohistochemistry and
5. Immunofluorescence.

TESTS DONE IN CYTOPATHOLOGY

1. FNAC,
2. Special Stains,
3. Immunocytochemistry,
4. PAP and
5. Liquid based cytology
6. Cytological examination of body fluids like urine, pleural, CSF, synovial, peritoneal and pericardial fluid for malignant cells
7. Sputum, BAL fluid, bronchial brush, TBNA and EBUS examination for malignant cells.

TEST DONE IN CLINICAL PATHOLOGY:-

Immunology assays

1. IgM,
2. IgG,
3. IgA,
4. IgE
5. ANA
6. DsDNA
7. Anti -cardiolipin antibody-IgG
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- 3. Bonemarrow aspiration and bone marrow biopsy examination
- 4. Nephelometry
- 5. Coagulation profile
- 6. Platelet aggregometry

MOLECULAR LAB

- 1. HLA Typing studies

TESTS DONE IN CENTRAL COLLECTION CENTRE

1. Hemoglobin estimation
2. Total leukocyte count
3. Total Erythrocyte count
4. Platelet count
5. MCV, MCH, PCV, MCHC
6. Differential leukocyte count
7. ESR
8. Peripheral smear reporting for haemoparasite
9. Peripheral smear reporting for haematological abnormalities
10. Reticulocyte count
11. Absolute eosinophil count
12. LE cell Phenomenon
13. Bleeding time
14. Clotting time

Urine analysis

1. Urine albumin and 24 hours estimation
2. Urine for microalbumin
3. Urine glucose/sugar
4. Urine for ketone bodies
5. Urine for bile salts, pigments & urobilinogen
6. Urine for blood
7. Urine pH
8. Urine specific gravity
9. Urine for leucocytes/Nitrates
10. Microscopy examination of urine sediments

Stool Examination

15. Stool for occult blood
16. Stool for ova/cyst or any other microscopically detected parasites
17. Sputum examination for malignant cells

TESTS DONE IN GYNAE LAB

1. Hemoglobin estimation
2. Total leukocyte count
3. Total Erythrocyte count

4. Platelet count
5. MCV, MCH, PCV, MCHC
6. Differential leukocyte count
7. Peripheral smear reporting for haemoparasite
8. Peripheral smear reporting for haematological abnormalities
9. Urine examination
10. Thyroid profile
11. Blood grouping
12. Urine for pregnancy test

TESTS DONE IN BURNS & PLASTIC LAB

1. Hemoglobin estimation
2. Total leukocyte count
3. Total Erythrocyte count
4. Platelet count
5. MCV, MCH, PCV, MCHC
6. Differential leukocyte count
7. ESR
8. Peripheral smear reporting for haemoparasite
9. Peripheral smear reporting for haematological abnormalities
10. Serum electrolytes
11. Blood urea

2. List of sample collection counters/rooms and sample collection timings

a) Central Collection Centre :

Central Collection Centre is situated at OPD Phase –III (Ground Floor), Room No. 19 where the samples from **OPD and wards** are collected for Departments of Clinical Pathology /Laboratory Medicine, Biochemistry and Microbiology.

All routine haematology/ urine/ stoolsamples for pathological tests are processed in this lab. Reports are dispatched to the various OPD and wards the same evening.

Registration Time for OPD

Monday to Friday: 8.30a.m to 11.30 a.m.

Saturdays : 8.30a.m to 10.00a.m

Sample collection for ward

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.30a.m

b) Gynae Lab:

Gynae Lab is situated at First floor, Gynae OPD where the samples from **ANCOPD and wards** are collected for Department of Obs& Gynae.

Sample collection Time for OPD

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.00a.m

Sample collection for ward

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.30a.m

c) Burn and Plastic Lab:

Burns & Plastic Lab is situated at Ground floor, Burns & Plastic OPD where the samples from **OPD and wards** are collected for Department of Burns & Plastic.

It caters to all indoor and outdoor cases of Burn and Plastic Department

Sample collection Time for OPD

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.00a.m

Sample collection for ward

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.30a.m

d) Emergency lab:

Emergency lab is located at First floor, New Emergency building (NEB). Samples from casualty (24 hrs) and all indoor patients after 4 pm.

Operational 24 hours all days, including Sundays and holidays, providing emergency services.

e) Super speciality block lab (SSB) –

Super speciality block lab is located at Third floor, Super speciality block building (SSB).

Sample collection Time for OPD

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.00a.m

Sample collection for ward

Monday to Friday: 9.00a.m to 11.30 a.m.

Saturdays : 9.00a.m to 10.30a.m

e) Histopathology:

Histopathology lab is situated at 4th floor, VMMC College building. All surgical specimens / tissue biopsies from the various departments of Safdarjung Hospital are received, processed and examined microscopically to reach a definite diagnosis.

Sample Receiving Time : 10.00 AM – 12.00 Noon (Monday to Friday)
2.00 P.M – 3.00 P.M (Monday to Friday)
10.00 A.M – 11.30 A.M (Saturday)

e) Cytopathology:

Fine Needle Aspiration Cytology (FNAC) done in Room No. 557, 5th Floor, OPD Building

Timings: **Registration:** 9.30 A.M – 11.00 AM (Monday to Friday)
9.30 A.M – 10.30 AM (Saturday)

All the patients registered undergo FNAC procedure on the same day.

Pap's Smears & fluid Cytology: Room No.410, in Fourth Floor, Deptt. of Pathology, Vardhman Mahavir Medical College building.

Receiving time: 9.30 AM – 12.00 Noon daily.

f) Main Lab:

Main lab is situated in 2nd Floor, B wing, Old casualty building

Sample Collection time: 9:00 am – 12:00 pm

All test done as per the list of tests done in clinical pathology.

g) Special hematology:

Special hematology lab is situated in Room No. 212, 2nd Floor, B wing, Old casualty building

Sample Collection time: 9:00 am – 12:00 pm

h) Molecular Lab:

Molecular lab is situated in Room No. 216, 2nd Floor, B wing, Old casualty building

HLA typing of all the cases referred from renal transplant unit and others.

3. Report dispatch counters –

a) Central Collection Centre [OPD Blood Sample Collection for multiple test]:

Report dispatch – All ward reports are dispatched to the respective wards on the same day.

All OPD reports are dispatched to the respective OPDs, early morning next day.

b) Gynae Lab:

Report dispatch–

All ward reports are dispatched to the respective wards on the same day.

All OPD reports are distributed at the report distribution counter in Gynae OPD under Deptt. of Obs& Gynae.

Some OPD reports like Hb and urine are given at the same time to the patient.

c) Burn and Plastic Lab:

Report dispatch–

All ward reports are dispatched to the respective wards on the same day.

All OPD reports are distributed at the report distribution counter in Burns & Plastic OPD under Deptt. of Burns & Plastic surgery.

d) Emergency lab:

Reports dispatched to the respective units by MTW worker.

e) Histopathology:

Report dispatch – Room No. 413, 4th Floor, Vardhman Mahavir Medical College building.

Time – 9:00 AM to 12:00 PM (Monday to Saturday)

e) Cytopathology:

FNAC report dispatch – Room No. 557, 5th Floor, OPD Building

Time – 9:30 AM to 12:00 PM

Pap smear and LBC report dispatch – All reports are dispatched to be distributed at the report distribution counter in Gyane OPD under Deptt. of Obs& Gynae.

Fluid cytology report – Room No. 410, 4th floor, Vardhman Mahavir Medical College building

Time – 9:00 AM to 12:00 PM

f) Main Lab:

Report dispatch –

All ward reports are dispatched to the respective wards.

All OPD reports are dispatched to be distributed at the report distribution counter No. 3 in Room No. 211, IInd floor, B-wing, Old casualty building.

Time – 9:00 AM to 12:00 PM

g) Special hematology:

Report dispatch –

All reports are to be collected from Room No. 212, IIInd floor, B-wing, Old casualty building.

Time – 9:00 AM to 12:00 PM

h) Molecular Lab:

Report dispatch –

All reports are to be collected from Room No. 216, IIInd floor, B-wing, Old casualty building.

Time – 9:00 AM to 12:00 PM

DEPARTMENT OF BIOCHEMISTRY

1) LIST OF INVESTIGATIONS:

CLINICAL BIOCHEMISTRY UNIT + BIOCHEMISTRY LAB, NEW EMERGENCY BLOCK

A) Clinical Biochemistry Unit:

1. Blood Sugar

- Fasting
- PP
- Random
- OGTT

2. KFT

- Urea
- Creatinine

3. Serum Electrolyte

- Na⁺
- K⁺

4. LFT

- T. Bil
- D. Bil
- I. Bil
- AST
- ALT
- ALP

5. S. Protein

- Albumin
- Globulin

6. Lipid Profile

- Triglycerides
- Total Cholesterol
- LDL
- HDL
- TC: HDL Ratio

7. Cardiac

- Total CK
- CK-MB
- LDH

8. Sr. Ca⁺

9. Sr. Phosphorous

10. Sr. Amylase

11. Sr. Uric Acid

12. Urinary Creatinine

13. Creatinine Clearance

14. Asitic/Plural Fluid Protein

15. 24hr. Urinary Calcium

B) Biochemistry Lab, New Emergency Block:

1. Blood Sugar
 - Fasting
 - Random
2. KFT
 - Urea
 - Creatinine
3. Serum Electrolytes
 - Sodium
 - Pottassium
4. LFT
 - Total Billirubin
 - Direct Billirubin
 - AST
 - ALT
 - ALP
5. Cardiac Enzymes
 - Total CK
 - CK-MB
6. CSF
 - CSF-Sugar
 - CSF-Protein
7. Amylase
8. Asitic/Pleural Fluid
 - Sugar
 - Protein

2) SAMPLE COLLECTION COUNTERS:

S. No.	Sample Collection Counters	Timing
a)	Central Collection, Room No. 19, OPD Block	9am To 11:30am
b)	Biochemistry Collection at Biochemistry Department, Old Emergency Block, 3 rd Floor	9am To 11:30am
c)	For Blood Sugar & Lipid Profile, Room No. 415, Biochemistry Department, Old Emergency Block, 3 rd Floor	8:30am To 11:30am
d)	Room No. 312, 3 rd Floor, Super Specialty Building	9am To 11:30am
e)	Sample Collection Counter, Waiting Hall, 1 st Floor, New Emergency Block	24 Hrs.

3) DISPATCH COUNTERS: Reports are dispatched in:-

S. No.	Dispatch Counters	Timing
a)	Reporting room of all OPDs in OPD Block	9am To 11:30am
b)	All Wards, ICU in all Old Emergency Block, NEB, SSB, H-Block, Surgical, Ortho, Gynae wards.	4pm To 5pm

DEPARTMENT OF MICROBIOLOGY

1. LIST OF INVESTIGATIONS

Bacteriology Test

1. Urine Section

- a) Culture using conventional method
- b) Antibiotic susceptibility of isolated pathogens

2. Sterile Fluids including CSF Section

- a) Direct gram stain of all sample
- b) Culture using conventional method
- c) Antibiotic susceptibility of isolated pathogens
- d) Latex agglutination for selected pathogens (*Streptococcus pneumonia*, *Neisseria meningitides*, *Haemophilus influenza*, Group B *Streptococcus*) (on request)

3. Pus and Miscellaneous Section

- a) Direct gram stain of sputum samples, endotracheal aspirate or any other sample that is requested
- b) Culture of all samples (pus swabs, pus aspirate, throat swab, sputum, endotracheal aspirate, broncho-alveolar lavage, high vaginal swabs, semen, placental membrane, corneal scrapping, knee aspirate) by conventional method
- c) Albert's stain for throat swabs
- d) Antibiotic susceptibility of isolated pathogens

4. Blood Section

- a) Culture using conventional and automated methods
- b) Antibiotic susceptibility of isolated pathogens
- c) Antibiotic MIC by automated (on request)

Serology

1. WIDAL
2. Typhi Dot
3. CRP test
4. Serum Procalcitonin (PCT) (Semiquantitative)
5. ASLO test
6. RA Factor test
7. Anti CCP Antibody test
8. Anti Leptospirosis Antibody test (Rapid and ELISA)
9. Anti Scrub Typhus Antibody test (Rapid and ELISA)

Parasitology

1. Stool Routine Microscopy for ova and cyst
2. Stool for vibrio (Hanging Drop)
3. Stool culture and susceptibility
4. Stool for special parasites
5. Blood for microfilaria
6. Liver Abscess aspirate for Entamoeba histolytica/Hydatid cysts
7. Hydatid serology
8. Rapid Malaria Antigen test
9. Peripheral smear for malarial parasite
10. Kala Azar (rK39 Test)
11. Anti-Neurocyticercosis antibody Test
12. Anti- Entamoeba histolytica antibody Test
13. Filarial antigen test

Anaerobic

1. Culture
2. Clostridium difficile toxin detection

Tuberculosis

1. ZN Stain
2. Culture (MGIT)
3. Molecular tests (on request)

Mycology

1. KOH mount
2. India ink

3. Mycology stains – grams and giemsa
4. Culture
5. Antifungal susceptibility test
6. Galactomannan
7. Pan Fungal PCR

Virology other than Hepatitis

1. TORCH panel Test
2. Dengue NS1
3. Anti Dengue IgM
4. Anti Chikungunya IgM

Influenza A H1N1 (Swine Flu)

1. Qualitative Real Time PCR
2. Respiratory Viral pathogens (on request)

Hepatitis

1. Anti HBs Antibody titres for Health care workers
2. HBsAg ELISA
3. HBsAg Card Test
4. Anti HBcore Ab IgM
5. HBeAg ELISA
6. Anti HCV ELISA
7. HCV DOT Card Test
8. Anti HAV ELISA
9. Anti HEV ELISA
10. Anti HBS Ag ELISA (Semiquantitative)

STD

1. HIV 1 & 2 Antibody Test (Immuno-chromatography, Lateral Flow)
2. HIV 1 & 2 Antibody Test (Immuno-concentration, Flow through)
3. HIV 1 & 2 Antibody Test (Enzyme Immuno Assay)
4. HIV 1 & 2 Antibody Test (ELISA)
5. CD₄ Cell Count
6. VDRL (Qualitative and Quantitative)
7. RPR (Qualitative and Quantitative)
8. TPHA
9. FTA-Abs
10. TP IgG ELISA
11. Gram Stain for Neisseria gonorrhoea, H ducreyi, Candida, Bacterial vaginosis
12. Giemsa stain for MNGC, Donovan Bodies

13. Dark Ground examination for Treponema pallidum
14. Wet mount for Trichomonas vaginalis, KOH mont for Candida
15. Aerobic Culture for Neisseria gonorrhoea, Candida, Trichomonas vaginalis
16. Antimicrobial susceptibility testing for Neisseria gonorrhoea
17. Antimicrobial susceptibility testing for fluconazole

NEB

1. Urine culture
2. Blood culture by Automated blood culture system - BacTAlert 3D system
3. Pus culture - Aspirate and swab
4. ET culture
5. Tissue culture
6. Culture of sterile body fluids - pleural fluid, peritoneal fluid, pericardial fluid, CSF
7. Throat swab culture
8. Gram stain
9. Albert's stain
10. India Ink preparation
11. Malarial antigen - rapid card test
12. CRP - latex agglutination
13. ASO - latex agglutination
14. RA factor - latex agglutination
15. Susceptibility testing - disk diffusion and automated ID and AST system (Vitek 2)
16. Urine microscopy - uncentrifuged specimen
17. HBsAg - Immunochromatographic test
18. Anti-HCV antibodies - Rapid test (ICT/Flow through)

2. LIST OF SAMPLE COLLECTION COUNTERS, THE SAMPLES COLLECTED THERE AND SAMPLE COLLECTION TIMING

1. Routine samples – Room No 9, OPD Building, Ground Floor (Monday to Friday: 9AM-11:30AM, Saturday 9AM to 10:30AM)
2. Ward samples – collection counter, near office of Department of Microbiology, 5th Floor, College Building
 Routine Samples up to 12:00PM (Monday to Friday) & 10:30AM (Saturday)
 Emergency Samples up to 3:30PM (Monday to Friday) & 12:30AM(Saturday)
3. All other samples beyond routine sample timings are accepted in NEB, Room No.107, 1st Floor, NEB Building.

Note: Urine samples for culture & sensitivity will not be accepted after 12:30 PM in Main Laboratory and after 4.00 PM in NEB

3. REPORT DISPATCH COUNTERS

All the reports are dispatched to the respective OPDs and departments by laboratory attendants.

Important/Critical reports are communicated on the telephone

Name of the test	Turn around time
BACTERIOLOGY	
Bacteriological Culture	24-48hrs (Some cases upto 72hrs)
Gram's Stain, Albert's Stain, Wet mount, Stool hanging drop	Available same day. Reports dispatched next day
SEROLOGY	
WIDAL	24hrs
Typhi Dot	Available same day. Reports dispatched next day
CRP test	Available same day. Reports dispatched next day
Serum Procalcitonin (PCT) (Semiquantitative)	Tested in batches (once in 15 days)
ASLO test	Available same day. Reports dispatched next day
RA Factor test	Available same day. Reports dispatched next day
Anti CCP Antibody test	Tested in batches (once in 15 days)
Anti Leptospirosis Antibody test (Rapid and ELISA)	Rapid- Available same day. Reports dispatched next day ELISA-Tested in batches
Anti Scrub Typhus Antibody test (Rapid and ELISA)	Rapid- Available same day. Reports dispatched next day ELISA-Tested in batches
PARASITOLOGY	
Stool Routine Microscopy for ova and cyst	Available same day. Reports dispatched next day
Stool for vibrio (Hanging Drop)	Available same day. Reports dispatched next day
Stool culture and susceptibility	24-48hrs
Stool for special parasites	Available same day. Reports dispatched next day
Blood for microfilaria	Available same day. Reports dispatched next day
Liver Abscess aspirate for Entamoeba histolytica/Hydatid cysts	Available same day. Reports dispatched next day
Hydatid serology	Tested in batches (once in 15days)
Rapid Malaria Antigen test	Available same day. Reports dispatched next day
Peripheral smear for malarial parasite	Reports dispatched next day

Kala Azar (rK39 Test)	Tested in batches (once in 15days)
Anti-Neurocyticercosis antibody Test	Tested in batches (once in 15days)
Anti- Entamoeba histolytica antibody Test	Tested in batches (once in 10days)
Filarial antigen test	Tested in batches (once in 15days)
Clostridium difficile toxin detection	Reports dispatched next day
MYCOBACTERIOLOGY	
Mycobacterium Culture	4-6 weeks
ZN Stain	Dispatched the next day.
Molecular Test for TB	Tested in batches (bi-monthly to monthly)
MYCOLOGY	
Mycology Culture (Molds)	7-28 days
Mycology Culture (Yeast)	1-3 days
KOH Mounts, India Ink	Available same day. Reports dispatched next day
Mycology Stains (Gram's and Giemsa)	Available same day. Reports dispatched next day
Galactomannan	Tested in batches (weekly)
Pan Fungal PCR	Tested in batches (bimonthly to monthly)
VIROLOGY	
TORCH panel Test	Tested in batches (10 days)
Dengue NS1	Seasonal – 24hrs, Non-seasonal (Tested in batches – 3-4days)
Anti Dengue IgM	Seasonal – 24hrs, Non-seasonal (Tested in batches – 3-4days)
Anti Chikungunya IgM	Seasonal – 24hrs, Non-seasonal (Tested in batches – 3-4days)
H1N1	
Qualitative Real Time PCR for H1N1	24-48hrs
Respiratory Viral pathogens (on request)	Tested in batches (bi-monthly to monthly)
Hepatitis	
Anti HBs Antibody titres for Health care workers	4 days
HBsAg ELISA	4 days
HBsAg Card Test	Available same day
Anti HBcore Ab IgM	4 days
HBeAg ELISA	4 days
Anti HCV ELISA	4 days
HCV DOT Card Test	Available same day
Anti HAV ELISA	7 days
Anti HEV ELISA	7 days
Anti HBS Ag ELISA (Semiquantitative)	4 days
STD	
HIV 1 & 2 Antibody Test (Immuno-	1 working day

chromatography, Lateral Flow)	
HIV 1 & 2 Antibody Test (Immuno-concentration, Flow through)	1 working day
HIV 1 & 2 Antibody Test (Enzyme Immuno Assay)	1 working day
HIV 1 & 2 Antibody Test (ELISA)	7 working days
CD ₄ Cell Count	1 working day
VDRL (Qualitative and Quantitative)	1 working day
RPR (Qualitative and Quantitative)	1 working day
TPHA	7 working days
FTA-Abs	15 working days
TP IgG ELISA	15 working days
Gram Stain for Neisseria gonorrhoea, H ducreyi, Candida, Bacterial vaginosis	1 hour
Giemsa stain for MNGC, Donovan Bodies	1 hour
Dark Ground examination for Treponema pallidum	1 hour
Wet mount for Trichomonas vaginalis, KOH mont for Candida	1 hour
Aerobic Culture for Neisseria gonorrhoea, Candida, Trichomonas vaginalis	2 days, 7 days, 7 days
Antimicrobial susceptibility testing for Neisseria gonorrhoea	4 days
Antimicrobial susceptibility testing for fluconazole	5 days
NEB	
Urine culture	24-48hrs
Blood culture by Automated blood culture system - BacTAlert 3D system	24hrs-5days
Pus culture - Aspirate and swab	24-48hrs
ET culture	24-48hrs
Tissue culture	24-48hrs
Culture of sterile body fluids - pleural fluid, peritoneal fluid, pericardial fluid, CSF	24-48hrs
Throat swab culture	24-48hrs
Gram stain	Available same day. Reports dispatched immediately
Albert's stain	Available same day. Reports dispatched immediately
India Ink preparation	Available same day. Reports dispatched immediately
Malarial antigen - rapid card test	Available same day. Reports dispatched immediately
CRP - latex agglutination	Available same day. Reports dispatched immediately
ASO - latex agglutination	Available same day. Reports dispatched immediately
RA factor - latex agglutination	Available same day. Reports dispatched immediately

Susceptibility testing - disk diffusion and automated ID and AST system (Vitek 2)	24-48hrs
Urine microscopy - uncentrifuged specimen	Available same day. Reports dispatched immediately
HBsAg - Immunochromatographic test	Available same day. Reports dispatched immediately
Anti-HCV antibodies - Rapid test (ICT/Flow through)	Available same day. Reports dispatched immediately

DEPARTMENT OF HEMATOLOGY

1) Name of Tests

1. Complete Hemogram (Hb,TLC, PCV,MCV,MCH,MCHC,RBC,PLATELET,RDW,PCT)
2. DLC on P.S
3. ESR
4. RETICULOCYTE
5. Bone Marrow & Biopsy Staining
6. Cytochemistry:
7. PAS,Px,SudanBlack,Fe.stain
8. Serum Iron
9. TIBC
- 10.% Saturation, of Transferrin
- 11.Serum ferritin
- 12.s. Vit B12
- 13.S. folic Acid
14. **Special Hematology Bio-Chemistry Test** (G6PD, Osmotic Fragility, Sucrose lysis Test for PNH, Sickling, Inclusion/ Heinz bodies, Plasma Hb, Urine for Hemocrydrine, Urine BJ protein, Nitro-blue test (NBT), Autohemolysis 48hrs, Meth –Haemoglobin, LE Cell, Acid Elution Test)
- 15.CSF Cytology
- 16.S. Protein Electrophroies
- 17.Serum Immunofixation
- 18.Immunohistochemistry
- 19.HPLC For Thalassemia
- 20.Platelet Aggregation (PFT)
- Coagulation Profile Test**
- 21.BT, CT, PT , INR ,TT, APPT,
- 22.MIXING Study
- 23.FDP/D- Dimer
- 24.S. Fibrinogen assay
- Special test coagulation**
- 25.Factor ,VIII Assay
- 26.Factor, IX Assay
- 27.Factor XIII (Clot solubility)
- 28.Protein C

29. Protein S

30. APLA

31. VWF Ag

OTHER TEST

32. RNA /DNA

33. FLOW CYTOMETRY

In the department of haematology, only referred patients are seen. The tests are performed in haematology Lab. located on first floor H-Block extension.

2) Collections counter (Room No.1) and advised haematology investigations are done in haematology Laboratory. Timing of collection 9 AM To 11.30 AM.

3) Patients are seen by clinical haematologist in room No. 5 and 5A located on ground floor of H-Block extension.

4) Reports are attached to the haematology file and can be collected from Room No. 1 of haematology OPD on the direction of treating clinical haematologist. Timing (9 AM TO 4PM).

C.I.O. LABORATORY

INVESTIGATION	Sample Collection centre	Dispatch / report collection centre
HISTOPATH (Tissue & Bone Biopsy)	CIO LAB Timing (9 am TO 4pm)	CIO LAB Timing (9 am TO 4pm)
CYTOPATH (FNAC)	CIO LAB Timing (9 am TO 4pm)	CIO LAB Timing (9 am TO 4pm)
HEMATOLOGY (CBC WITH ESR) Biochemistry & serology (only for orthopedic patient)	ROOM NO. 5G Timing (9am TO 11.30 am)	Room no 10 , Ground Floor) Timing (9 am TO 4pm)