Introduction and Scope:

Dr Rasik Kantaria Jalaram Medical Services (RKJMS) laboratory is a registered medical laboratory (KMLTTB-F041). The laboratory provides services in the Clinical pathology and anatomical pathology disciplines. It is manned by highly skilled and qualified pathologists, and medical laboratory technologists. The laboratory is a part of the Dr. Rasik Kantaria Jalaram Medical services (A Level 4 Health Centre, KMPDC Registration Number 003448).

RKJMS Vision: To be the leading healthcare provider offering affordable, accessible and premium quality day care services in Kenya, ensuring exceptional outcomes for all patients.

RKJMS Mission: To provide patient- centred, affordable, and accessible health care to all. We are dedicated to always delivering high quality treatment with compassion and dignity.

This handbook provides guidance to clinicians, patients, and other users of the laboratory services regarding available tests, sample collection requirements, reporting processes, and communication channels.

The laboratory provides diagnostic services in clinical chemistry, haematology, immunology, microbiology, and related disciplines.

Services include routine and specialized testing, advisory services, and referral testing where necessary.

Laboratory Services:

Sample collection is done at the laboratory phlebotomy area, at the First floor of RKJMS. Clients are served on a first come first served basis.

The laboratory is open for service as follows:

- Monday to Friday: 7AM to 7PM
- Saturday: 8AM to 4PM
- Sunday and Public Holidays: 9AM to 1 PM.

Reports of examination are shared back to the clients and the referring clinicians at request; this is provided through email addresses obtained at registration, save for histopathology requests/reports which are only shared with the requesting clinician/doctor.

The reports contain the reference ranges and report interpretation notes.

Location of the laboratory and Contact Information:

The laboratory is located on the First Floor of the RKJMS, situated on 19 Jalaram road, off Parklands Ring Road.

Contact information:

- Phone: +254205012200/204
- Email: lab@jalaramnairobi.org
- Website: www.jalarammedicalservices.org

Specimens are received at the laboratory reception upon confirmation of billing status.

Advisory services

Advise on the choice of the tests, results interpretation, and logistical matters can be obtained by contacting the laboratory on the following contacts:

1. Pathologist/Laboratory Director:
    a. Extension 211
    b. Email: pathologist@jalaramnairobi.org
2. Laboratory Supervisor

a. Extension 247/204

b. Email: labsupervisor@jalaramnairobi.org

3. Quality Assurance Officer

a. Extension 204/247/277/286

b. Email labqa@jalaramnairobi.org

4. Technical Assistance (Biochemistry, Haematology, Microbiology and Histology/Cytology): Extension 204/247

General Laboratory information for clients and patients

1. Consent for Laboratory tests

The laboratory terms the request form as a legal agreement between the patients and the laboratory; hence, the laboratory does not take verbal requests.

For majority of tests without risk of harm to the patient, the laboratory takes implied consent to perform the test's, implied consent is inferred by you (the patient) paying for and agreeing to come and have the test done. Some other tests require a special consent form filled in and witnessed by a laboratory representative (i.e. Phlebotomist, pathologists., these tests include Invasive procedures, Human Immunodeficiency virus (HIV), Hepatitis B surface Antigen (HbSAg), Hepatis C antibody (HCV), and Genetic tests.

2. Patient preparation for sample collection:

a. Fasting Samples: A fasting period of 8 to 12 hours is needed for all fasting samples, during the fast, you can only take water.

b. Oral glucose tolerance testing:

   i. Patients should maintain a normal carbohydrate-containing diet (at least 150 g per day) for at least three days prior to the test. On the day of the test, the patient should fast for 8–12 hours, preferably overnight, and not exceed 14 hours of fasting, as prolonged fasting may produce inaccurate results. The test should be performed in the morning and must begin no later than 9:00 AM.

   ii. The patient should be prepared to remain in the laboratory for approximately 2–3 hours during the testing period. After the fasting blood sample is collected, the patient will be given a standard glucose load to drink, and additional blood samples will be collected at specified intervals according to the testing protocol.

   iii. During the test period, the patient should remain seated in the laboratory, and must not eat, smoke, chew gum, or perform vigorous physical activity, as these activities may affect the test results. Only small amounts of water may be taken if necessary.

c. Cortisol: Timed collections, Cortisol AM sample collected between 7AM and 9AM, cortisol PM samples collected between 3PM and 5PM.

d. Stool: Stop using laxatives and antidiarrheals at least 1 week before the day of the test

e. **Urine:** First mid-stream (MSSU) morning sample preferred for urine culture, urine samples are to be delivered at the laboratory within 1 hour of collection, otherwise keep the sample refrigerated.

3. Patient Identification at the laboratory

The laboratory requires that patients are identified using at least two identifiers, that is name and age or an assigned hospital number.

During sample collection, patients are encouraged to verbalise their names for positive identification.

4. Requesting tests and Process flow for sample collection area:

The following is the process flow at the laboratory for sample collection.

Clinicians at the RKJMS for Internal patients:

1. Clinician places the test request in the HMIS.
2. Patient proceeds to billing for billing and invoicing.
3. After successful billing and invoicing, the patient is given a receipt/invoice.
4. Present the receipt at the laboratory reception area.
5. Patient waits to be called at the laboratory phlebotomy area for sample collection.

Walk in patients

1. Patient seeing clinicians outside RKJMS will present the request form from their doctor at the laboratory reception/billing area, for those without request forms shall fill the request form indicating its self-requisition.
2. Billing is done as per the request form and the patient pays for the tests.
3. After successful payment, the patient is provided a receipt/invoice.
4. Present the invoice/receipt and request form at the laboratory.
5. Wait to be called at the phlebotomy area for sample collection.

Online and Oral requests

1. Examination request received in the laboratory through electronic means shall be documented in the official request form. A printout of the communication taken and attached to the dully filled request form.
2. Oral received examination requests shall be documented by the laboratory personnel in the official request form and filed in the laboratory.

6. Sample acceptability criteria and sample rejection.

The laboratory only accepts samples for processing when the sample do not jeopardize the quality of results. Samples are accepted for analysis if they meet the following criteria:

- The sample is not broken nor leaking.
- The sample is not soiled.
- The container is not empty.
- The sample is placed in the correct container.
- Whole blood samples in EDTA are filled to at least half of the prescribed volume and is not clotted.
- Citrated samples are filled within 10% of the prescribed volume
- Serum and plasma samples are not visibly haemolyzed.
- Serum and plasma samples have enough volume for analysis.
- The sample container is well labelled with at least the name of the patient and the RKJ Number and/or the age of the patient.
- Details of the hand label correspond to the barcode label.
- Sample label corresponds to the patient details on the request form.
- The request form is adequately filled.

You will be notified to provide another sample/come for recollection when your sample is rejected.

However, there are some samples that cannot be rejected and include but are not limited Histology tissues, you will be notified that these samples were received in an unacceptable state, and you will be informed of the same in the results, take caution when interpreting such results.

7. Sample transport to the laboratory.

When samples are collected at the laboratory, they are delivered to the lab immediately for analysis. When samples are collected outside the laboratory, transport/keep them at 2-8°C and deliver them to the laboratory immediately, unless informed to store the samples at a different specified temperature.

Home collected samples should be delivered to the laboratory within 1 hour of collection.

8. Reports on examinations:

Electronic Reports

When the results are ready, the reports are emailed to you and your doctor (on request except Histopathology reports which are shared to requesting clinician only)

When you are consulting with RKJMS doctors, the reports will be accessible in the HMIS by your doctor when the examination is done.

Physical Copies

When you need to pick physical copies, present your receipt or invoice at the laboratory dispatch area to collect the reports.

9. Complaints, compliments, and feedback.

The laboratory values your feedback, when you are dissatisfied, contact the laboratory on the addresses listed above and/or labqa@jalaramnairobi.org

The laboratory handles complaints received as follows:

- A complaint is raised by the complainant.
- The complaint is received at the laboratory and documented.
- Investigation on the complaint is carried out.
- The laboratory informs the client the outcome of the investigation.
- You provide your feedback pertaining the complaint.

Technical information

1. Test repertoire.

The following services are offered at the laboratory, all other services not included here are outsourced, please contact the laboratory for further clarification.

Cost of testing can be obtained from the laboratory reception and/or by contacting the laboratory through the listed contacts.

The laboratory most often formulates packages, ask for available packages from the reception.

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
	Haematology					
1	Full Hemogram	Whole Blood	EDTA (Purple Top)	3 ml	1 Hour	Within 8 hrs (2–8°C)
2	Peripheral Blood Film (PBF)	Whole Blood	EDTA (Purple Top)	3 ml	2 Hours	Within 4 hrs (2–8°C)
3	Blood Parasites (*Blood smear- thick and thin)*	Whole Blood	EDTA (Purple Top)	3 ml	1.5 Hours	Within 1 hr
	Rapid test	Whole Blood	EDTA (Purple Top)	3 ml	1.5 Hours	up to 3 days (2–8°C)
4	Erythrocyte Sedimentation Rate (ESR)	Whole Blood	EDTA (Purple Top)	3 ml	1.5 Hours	Within 24 hrs (2–8°C)
5	Glycated Haemoglobin (HbA1c)	Whole Blood	EDTA (Purple Top)	3 ml	1 Hour	Within 24 hrs (2–8°C)
6	Manual Reticulocyte Count	Whole Blood	EDTA (Purple Top)	3 ml	1.5 Hours	Within 8 hrs
7	Blood Grouping	Whole Blood	EDTA (Purple Top)	2.7 ml	1.5 Hours	Within 120 hrs (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
8	Indirect Coombs Test	Serum & Whole Blood	SST/Plain/ (Yellow Red Top) & EDTA (Purple Top)	3 ml each	1.5 Hours	Within 24 hrs (2–8°C)
9	Direct Coombs Test	Serum & Whole Blood	SST/Plain (Yellow Red Top) & EDTA (Purple Top)	3 ml	1.5 Hours	Within 24 hrs (2–8°C)
10	Prothrombin Time (INR)	Citrate Plasma	Blue Top (Filled to the Mark)	2 ml or 4 ml depending on preservative volume	1 Hour	Within 4 hrs
11	Activated Partial Thromboplastin Time (APTT)	Citrate Plasma	Blue Top (Filled to the Mark)	2.7 ml	1 Hour	Within 4hrs
12	Sickling Test	Whole Blood	EDTA (Purple Top)	2 ml	24 Hours	Within 24 hrs
13	Fluid haematological analysis (Fluid routine analysis) - *Fluid cell count*	body fluid	Sterile Container/EDTA	5 ml	1.5 Hours	Within 8 hrs
	Biochemistry					
1	Liver Function Tests (Can be requested individually) *(Alkaline phosphatase, AST. ALT, Gamma GT, Total bilirubin, Direct bilirubin)*	Serum	SST/Plain (Yellow / Red Top)	3 ml	1.5 Hours	Within 72 hrs (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
2	Liver Function Tests + Proteins (Can be requested individually) (*ALP, AST, ALT, Gamma GT, Total bilirubin, Direct bilirubin, Total Protein, Albumin)*	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hrs (2–8°C)
3	Serum Proteins *(Total Protein, Albumin, Globulins*)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hrs (2–8°C)
4	Serum Bilirubin *(Total Bilirubin, Direct Bilirubin*)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hrs (2–8°C)
5	U/E/Cs (Can be requested individually) *(Serum Creatinine, Sodium, Potassium, Chloride, Urea, eGFR)*	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 4 hrs (2–8°C)
6	Serum Electrolytes (Can be requested individually) *(Sodium, Potassium, Chloride*)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 4 hrs (2–8°C)
7	Calcium	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hrs (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
8	Corrected Calcium	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hrs (2–8°C)
9	Phosphorous	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
10	Uric Acid	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
11	Magnesium	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
12	Lipase	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
13	Amylase	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
14	Creatine Kinase (CK/CPK)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
15	Fasting Lipid Profile (Can be requested individually) *(Total Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol*)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
16	Random Lipid Profile (Can be requested individually) (Total Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
17	Fasting Blood Glucose	Fluoride Plasma	Sodium Fluoride (Grey Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
18	Random Blood Glucose	Fluoride Plasma	Sodium Fluoride (Grey Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
19	Post Prandial Blood Sugar (PPBS)	Fluoride Plasma	Sodium Fluoride (Grey Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
20	Oral Glucose Tolerance Test (OGTT)	Fluoride Plasma (0, 1hr, 2hr)	Sodium Fluoride (Grey Top)	3 ml	3 Hours	N/A
21	Lactate Dehydrogenase (LDH)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
22	C-Reactive Protein (CRP)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
23	Highly Sensitive CRP (hsCRP)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
24	D-Dimers	Citrate Plasma	Blue Top (Filled to the Mark)	3 ml	1.5 Hours	Within 8 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
25	Iron	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
26	Transferrin	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
27	Ferritin	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
28	Iron Studies *(Transferrin, Ferritin, UIBC, TIBC, Iron, Transferrin saturation*)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
29	Transferrin Saturation *(TIBC, Iron, Transferrin saturation, Transferrin)*	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
30	Urine Albumin Creatinine Ratio *(Urine Creatinine, Urine Microalbumin)*	2nd morning Urine	Plain Urine Container	3 ml	1.5 Hours	Within 8 hours (2–8°C)
31	Urine Microalbumin	Urine	Plain Urine Container	3 ml	1.5 Hours	Within 8 hours (2–8°C)
32	Fluid Biochemical Analysis (Fluid Routine) *(Glucose, LDH, Proteins)*	Body fluid	Sterile container/Plain tube	3 ml	1.5 Hours	Within 4 hours (2–8°C)
	Serology					
1	Rheumatoid Factors (RF)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
2	VDRL *(VDRL, RPR)*	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
3	ASOT (Anti streptolysin O titre)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hours (2–8°C)
	Immunology					
1	Thyroid Function Tests (Can be requested individually) *(Free T3 (Triiodothyronine, Free T4 (Thyroxine), TSH*	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
2	Thyroglobulin Antibody (Anti TG)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
3	Thyroid Peroxidase Antibody (Anti TPO, Microsomal TPO Ab)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
4	Thyroid Antibodies (Anti TG, Anti TPO)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
5	Total PSA	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
6	Free PSA	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
7	Free PSA/Total PSA Ratio	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
8	Total Testosterone	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
9	Anti-Mullerian Hormone (AMH)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
10	Prolactin	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
11	Follicle Stimulating Hormone (FSH)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
12	Luteinizing Hormone (LH)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
13	Oestradiol (E2)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
14	Parathyroid Hormone (PTH)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hours (2–8°C)
15	HIV 1&2	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
16	Anti – HCV (Hepatitis C Virus Antibodies)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
17	Hepatitis B Surface Antigen (HbSAg)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
18	Troponin T highly sensitive	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hours (2–8°C)
19	Serum Pro – B type natriuretic peptide (Pro – BNP)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hours (2–8°C)
20	Human Chorionic Gonadotrophin beta subunit (β-HCG)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
21	CA 15-3	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
22	CA 125	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
23	CA 19-9	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
24	CEA (Carcinoembryonic Antigen)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
25	Alpha Fetoprotein (AFP)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
26	Serum Folate	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 4 hours (2–8°C)
27	Vitamin B12	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 4 hours (2–8°C)
28	25-OH Vitamin D3	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 8 hours (2–8°C)
29	Cortisol (AM) (8 AM (7-9AM))	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	N/A
30	Cortisol (PM) (4 PM (3-5 PM))	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	N/A
31	Cortisol (Random)	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 24 hours (2–8°C)
32	Procalcitonin	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 4 hours (2–8°C)
33	Anti-Cyclic Citrullinated Peptide (Anti-CCP) antibodies	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
34	Serum Total IgE	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
35	Fasting Insulin	Serum	SST/Plain (Yellow/ Red Top)	3 ml	1.5 Hours	Within 72 hours (2–8°C)
	Microbiology and Molecular Biology					
1	Urinalysis/Urine routine analysis (Urine Biochemistry and Microscopy)	Urine	Sterile Urine Container	10 ml	1.5 Hours	Within 72 hours (2–8°C)
2	Urine Pregnancy Diagnostic Test (PDT)	Urine	Sterile Urine Container	5 ml	2 Hours	Within 72 hours (2–8°C)
3	Urine Culture and Sensitivity	Urine *(MSSU)*	Sterile Urine Container	10 ml	24-72 Hours	Within 72 hours (2–8°C)
4	Stool Routine Analysis	Stool	Clean Stool Container	1-2 tablespoon or walnut size	1.5 Hours	Within 72 hours (2–8°C)
5	Stool Rotavirus/Adenovirus	Stool	Clean stool container	1-2 tablespoon or walnut size	1.5 Hours	Within 72 hours (2–8°C)
6	Stool Helicobacter pylori (H. pylori)	Stool	Clean stool container	1-2 tablespoon or walnut size	1.5 Hours	Within 72 hours (2–8°C)
7	Stool Salmonella antigen	Stool	Clean stool container	1-2 tablespoon or walnut size	1.5 Hours	Within 72 hours (2–8°C)
8	Stool cryptosporidium	Stool	Clean stool container	1-2 tablespoon or walnut size	2 Hours	Within 72 hours (2–8°C)

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
9	Stool culture and sensitivity	Stool	Clean stool container	1-2 tablespoon or walnut size	48-72 Hours	Within 72 hours (2–8°C)
10	HVS (High Vaginal Swab) Routine	HVS	Swab in Amie's transport media	1 swab with sample	1.5 Hours	Within 72 hours (2–8°C)
11	HVS (High Vaginal Swab) Culture	HVS	Swab in Amie's transport media	1 swab with sample	48-72 Hours	Within 4 hours (2–8°C)
12	ZN Staining	Sputum, Sterile body Fluids	Sterile container	5 ml	1.5 Hours	Within 72 hours (2–8°C)
13	Gram staining	Sputum, Sterile body fluids	Sterile container	Any volume	1.5 Hours	Within 24 hours (2–8°C)
4	KOH	Skin scrapings, Nail Clippings	Sterile container	Any volume	3 Hours	Within 24 hours (2–8°C)
15	TB Gene-xpert	Sputum, Body fluids	Sterile container	5-7 ml	2 Hours	Within 24 hours (2–8°C)
16	HIV Viral load	EDTA plasma	EDTA			
S No.	Test Name	Sample	Container Type	Sample Volume	TAT	Timeline for Additional Examination
	Cytology					
1	Pap Smear Collection and Interpretation	PAP Smear	PAP Smear	1 slide	5 Working Days	N/A

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
2	Fine Needle Aspiration Cytology (Procedure and Interpretation)	FNA	FNA	3-5 slides fixed 1 air dried	5 Working Days	Within 14 days
3	Fluid Cytology	Body Fluid	Sterile Container	10 ml	5 Working Days	Within 7 days
4	Histology (Large Specimen)	Tissue Biopsy	10% NBF/Formalin	Any size	5 Working Days	Up to 2 months
5	Histology (Small Specimen)	Tissue Biopsy	10% NBF/Formalin	Any size	5 Working Days	Within 1 month
6	Special Stains – fungal (PAS, GMS)	Tissue Biopsy	10% NBF/Formalin	Any size	10 Working Days	Up to 5 years
7	Gastric biopsy histology	Gastric Biopsy	10% NBF/Formalin	Any size	5 Working Days	Up to 5 years
8	Colon mucosal biopsy histology	Colon Mucosa Biopsy	10% NBF/Formalin	Any size	5 Working Days	Up to 5 years
9	ZN stain for histology	Tissue Biopsy	10% NBF/Formalin	1 Tissue block	10 Working Days	Up to 5 years
10	IHC Breast markers *(Oestrogen receptor, Human epidermal growth factor*	Tissue Biopsy and/or Tissue block	10% NBF/ Formalin	1 Tissue block	7 Days	Up to 5 years

S No.	Test Name	Sample	Collection Device/ Preservative	Sample Volume	TAT	Timeline for Additional Examination
	receptor-2 (HER-2), Ki-67, Progesterone receptor)					

2. List of outsourced Tests (Call the Laboratory for Prices)

S No.	Test	TAT
1	ACE (angiotensin converting enzyme) serum	5 Working Days
2	Acetylcholine receptors antibodies	5 Working Days
3	ACTH	5 Working Days
4	Adenosine deaminase (ADA)	5 Working Days
5	AFB-DNA detection by real time PCR	5 Working Days
6	Allergy panel - food non-vegetarian panel (11 parameters)	5 Working Days
7	Allergy screening (Phadiatop)	5 Working Days
8	ANA screen by IFA	5 Working Days
9	ANA profile	5 Working Days
10	Anticardiolipin antibodies (IgG)	5 Working Days
11	Anticardiolipin antibodies (IgM)	5 Working Days
12	Anti-ds DNA	5 Working Days
13	Anti HBeAg	5 Working Days
14	Anti-mitochondrial antibodies (AMA)	5 Working Days
15	Antiphospholipid antibodies (IgG and IgM)	5 Working Days
16	Anti-phospholipid profile (ACL IgG/M, β2 IgG/M)	5 Working Days
17	Apolipoprotein a	5 Working Days
18	Apolipoprotein a1	5 Working Days
19	Apolipoprotein b	5 Working Days
20	Aspergillosis IgG antibodies, serum	5 Working Days
21	Aspergillosis IgM antibodies, serum	5 Working Days
22	β2 microglobulin	5 Working Days
23	Bence jones proteins-urine	5 Working Days
24	Beta 2 glycoprotein IgG	5 Working Days
25	Beta 2 glycoprotein IgM	5 Working Days
26	Brucella agglutination test	5 Working Days
27	C3 compliment	5 Working Days

S No.	Test	TAT
28	C4 compliment	5 Working Days
29	C-ANCA (PR3 ANCA)	5 Working Days
30	Carbamazepine levels	5 Working Days
31	CD3/CD4/cd8 count	5 Working Days
32	Chlamydia trachomatis DNA detection by PCR, urine	5 Working Days
33	Chromogranin a	5 Working Days
34	CK-MB	5 Working Days
35	Clostridium difficile stool (A/b)	5 Working Days
36	CMV IgG	5 Working Days
37	CMV IgM	5 Working Days
38	Colon mucosal biopsy histology	5 Working Days
39	Copper reflex ceruloplasmin, serum	5 Working Days
40	COVID 19 RT PCR	5 Working Days
41	C-peptide	5 Working Days
42	Cryptococcus antigen detection, serum	5 Working Days
43	Dehydroepiandrostenedione sulphate (DHEAS)	5 Working Days
44	Dengue Antigen (NS1)	5 Working Days
45	Dengue IgG	5 Working Days
46	Dengue IgM	5 Working Days
47	Environmental monitoring	5 Working Days
48	Erythropoietin CLIA	5 Working Days
49	Faecal calprotectin	5 Working Days
50	Free light chain assay (Kappa & Lambda)	5 Working Days
51	Free testosterone	5 Working Days
52	Fungal stain culture and identification	5 Working Days
53	GAD65(anti GAD) antibodies by EIA (Type 1 Diabetes)	5 Working Days
54	GAD65 antibodies by IFA (Neuronal Antibody)	5 Working Days
55	Galactomannan	5 Working Days
56	Gamma interferon (tb gold QuantiFERON)	5 Working Days
57	Growth hormone (HGH)	5 Working Days

S No.	Test	TAT
58	Haemoglobin electrophoresis	5 Working Days
69	HAV IgG antibodies	5 Working Days
60	HAV IgM antibodies	5 Working Days
61	HbcAg (total antibody to hepatitis - b core antigen)	5 Working Days
62	HbeAg (hepatitis b envelope antigen)	5 Working Days
63	HBV-DNA detection, serum or plasma	5 Working Days
64	HCV viral load -plasma	5 Working Days
65	Hepatitis B surface antibody (anti HBs)	5 Working Days
66	Hepatitis B virus - core antibody IgM	5 Working Days
67	Herpes simplex type 1 IgM	5 Working Days
68	Herpes simplex type 2 IgM	5 Working Days
69	HEV-IgM, serum	5 Working Days
70	HLA B27 studies	5 Working Days
71	Homocysteine	5 Working Days
72	Immunoglobulin profile (IgG IgM IgA)	5 Working Days
73	Insulin like growth factor 1(IGF-1)	5 Working Days
74	Intrinsic factor antibodies	5 Working Days
75	Jak II mutation	5 Working Days
76	Lipoprotein (a)	5 Working Days
77	LKM-1(liver-kidney microsomes)	5 Working Days
78	Lupus anticoagulant	5 Working Days
79	Methyl malonic acid	5 Working Days
80	Myoglobin, serum	5 Working Days
81	P-ANCA (MPO-ANCA)	5 Working Days
82	Plasma lactate	5 Working Days
83	Plasma metanephrines	5 Working Days
84	Rubella virus IgG	5 Working Days
85	Rubella virus IgM	5 Working Days
86	Schistosoma IgM	5 Working Days
87	Serum aldolase	5 Working Days

S No.	Test	TAT
88	Serum copper levels	5 Working Days
89	Serum cotinine levels	5 Working Days
90	Serum protein electrophoresis (SPEP)	5 Working Days
91	Sex hormone binding globulin (SHBG)	5 Working Days
92	Smooth muscle antibody (ASMA)	5 Working Days
93	Thyroglobulin	5 Working Days
94	Tissue transglutaminase IgA	5 Working Days
94	Tissue transglutaminase IgG	5 Working Days
95	Total serum immunoglobulin IgA	5 Working Days
96	Toxicology screen (drugs of abuse 9 panel)	5 Working Days
97	Toxoplasma IgG	5 Working Days
98	Toxoplasma IgM	5 Working Days
99	TSH receptor antibody	5 Working Days

References

1. ISO 15189-2022 Medical laboratories - requirements for quality and competence.
2. Analyzer User Manuals
3. Reagent Kit inserts.