

# Schedule of testing and special instructions for sample collection

## General category tests

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
			Sample to reach before	Test Done on	Report ready on	
1.	5 HIAA	24 hr Urine	11:00 AM	Daily	Same day	See specific instructions for 24 hour urine collection
2.	Absolute Eosinophil Count (AEC)	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
3.	Absolute Lymphocyte Count (ALC)	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
4.	Absolute Neutrophil Count (ANC)	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
5.	A F P (Alfa fetoprotein)	Serum /Na+, Heparin / EDTA plasma	5:00 PM	Daily	Same day	This test is useful as a) As an oncofetal antigen and tumor marker for liver and yolk-sac tumors. b) As an indicator of fetal well being and for diagnosis of neural tube defects. Sample type is a) Serum / Heparinized or EDTA plasma b) Amniotic Fluid. Sample stability: Stable for 7 days at 2-8deg C Stable for 3 months at -20deg C . Interfering substances: Patients routinely exposed to animals / animal serum products may harbor heterophile antibodies that may react with reagent immunoglobulins and interfered with assay. The following have no effect on assay - Hemolysis <500mg/dl, lipemia < 1500mg/dl of Tgl, icterus < 65 mg/dl.
6.	Acid Phosphatase	Serum	5:00 PM	Daily	Same day	Clear Unhemolyzed Serum ONLY is acceptable. Immediately after separation of the serum from clot, stabilize the serum by the addition of 20 Microliter of stabilizer reagent(Acetate buffer) to every 1 ml of serum. The enzyme activity will be stable for 3days at 2-8 deg C. High levels of Bilirubin, Hemolysis, Lipemia, Oxalates and Fluoride, Heparin and EDTA.
7.	ACTH (Adreno Corticotrophic hormone)	K2 /K3 EDTA plasma	5:00 PM	Daily	Same day	Only use pre-cooled sampling vials.The samples should be drawn between 7-10 am.After drawing the blood , put the vials immediately in the fridge or use a cooled centrifuge to separate the plasma.Measure samples immediately or freeze them at -20deg C. Assay is labile and improper collection and transport of sample is likely to affect the test result
8.	Adenosine Deaminase ( ADA)	Serum / Plasma / Fluid / Urine / CSF	1:00 PM	Mon / Wed / Fri	Same day	ADA is widely distributed in the tissues and particularly in T lymphocytes. Increased levels of ADA in serum and fluids is found in association with tuberculosis - making it a surrogate marker of disease. ADA is also elevated in other infectious diseases and hence results must be correlated clinically. Hemolysis interferes with the assay. Sample Stability: Serum / Plasma: 3 days at 2-8 Degrees C, Biological Fluids: 2 days at 2-8 degrees C
9.	Albumin (See Protein - Albumin)	Serum	5:00 PM	Daily	Same day	See Protein - Albumin
10.	Alfa-1 Antitrypsin	Serum	3:00 PM	Daily	Same day	Disorders of this protein include alpha 1-antitrypsin deficiency, a hereditary disorder in which a deficiency of alpha 1-antitrypsin leads to a chronic uninhibited tissue breakdown. This causes the degradation especially of lung tissue, and eventually leads to characteristic manifestations of pulmonary emphysema.Sample is stable at 2-8 degrees for up to 10 days. Hemolyzed samples are not acceptable.
11.	Alkaline Phosphatase	Serum / Li Heparin Plasma	5:00 PM	Daily	Same day	Clear unhemolyzed serum / Lithium Heparinized plasma is most suitable. Sample stability: Stable for 7 days at 2-8deg C. Stable for 7 days at 15-25deg C Stable for 2 months at (-15)-(-25)deg C. Interfering factors: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200mg/dL. Lipemia (Intralipid) No

						significant interference up to an L index of 2000.
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12.	Ammonia	EDTA plasma	5:00 PM	Daily	Same day	Plasma should be separated immediately and sent for assay in ICE. Test must be done within one hour of collection. Samples reaching after this period / samples not sent in ice / unseparated samples are not acceptable. This test cannot be done on outstation samples. Hemolysis and lipemia interfere with the assay. Elevated levels of ammonia in infants can be caused by inherited deficiencies of the urea cycle enzymes or chronic liver diseases. In adults, elevated ammonia levels can aid in diagnosis of liver failure or hepatic encephalopathy from advanced liver diseases such as viral hepatitis or cirrhosis.
13.	Amylase	Serum / Li Heparin Plasma / Urine	5:00 PM	Daily	Same day	Clear, unhemolyzed serum / Lithium Heparin plasma.; Urine: Collect the urine without additives. Alpha amylase is unstable in acid urine. Adjust pH to alkaline range (just above pH7) before storage. Stability (Serum or plasma) : 7 days at 15-25deg C and 1 month at 2-8deg C Stability (urine) : 2 days at 15-25deg C and 10 days at 2-8deg C Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 500mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1500.
14.	ANA Profile (Immunoblot) for nRNP, Sm, SS-A, SS-B, Ro-52, Scl-70, PM-Scl, Jo-1, CENP-B, PCNA, dsDNA, Nucleosomes, Histones, Rib-P protein, AMA- M2	Serum / Heparin Plasma	2:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 500 mg/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
15.	Angiotensin Converting Enzyme	Serum / Heparinized plasma	5:00 PM	Daily	Same day	a) Samples are stable for 1 week refrigerated at 2-8 0 C. b) Frozen sample is stable for several months. Interfering substances: ACE activity is inhibited by EDTA, Heavy metal ions, Captopril. ACE activity should mainly be used to monitor activity of disease and not for primary diagnosis. However, high levels are found in about 85% cases with active pulmonary sarcoidosis.
16.	Anti-Brucella Antibody (Agglutination)	Serum	4:00 PM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. Sample should not be turbid
17.	Anti Cardiolipin antibody IgG and IgM (separately)	Serum / EDTA / Heparin Plasma	11:00 AM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis of 1000 mg/dl, lipemia of 2000 mg/dl and icterus of 40 mg/dl
18.	Anti- CCP (Cyclic Citrullinated Peptide) antibody for rheumatoid arthritis	Serum	11:00 AM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis of 1000 mg/dl, lipemia of 2000 mg/dl and icterus of 40 mg/dl
19.	Anti-Chikungunya Antibody (immunochromatography)	Serum	3:00 PM	Daily	Same day	Immunochromatographic method
20.	Anti-Chlamydia Antibody (ELISA)	Serum	11:00 AM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis of 1000 mg/dl, lipemia of 2000 mg/dl and icterus of 40 mg/dl
21.	Anti-CMV Antibody IgG and IgM	Serum / EDTA / Heparin Plasma	5:00 PM	Daily	Same day	Sample stability: 5 days at 2-8 Degrees C, 14 weeks at -20 Degrees C. Mild Hemolysis, lipemia and icterus do not interfere with analysis. Sample turbidity may affect results
22.	Anti-Dengue Antibodies (IgM) (ELISA)	Serum / EDTA / Heparin Plasma	11:00 AM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis of 1000 mg/dl, lipemia of 2000 mg/dl and icterus of 40 mg/dl
23.	Anti-ds DNA antibody (immunofluorescence)	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis, lipemia mg/dl or icterus
24.	Anti- Epstein Barr Virus (EBV) Antibody (CA-IgG, CA-IgM, EA, EBNA) - Immunofluorescence	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis, lipemia mg/dl or icterus

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25.	Anti-GBM Antibody (See Vasculitis Profile)	Serum / EDTA Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
26.	Anti-Gliadin Antibody (IgA / IgG) See Gastrointestinal profile	Serum	1:00 PM	Daily	Same day	This test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease
27.	Anti-Helicobacter pylori Antibody (IgG)	Serum	4:00 PM	Daily	Same day	Sample Stability: 8 hours at room temperature, 7 days at 2-8 Degrees C. Hemolysis, lipemia and icterus do not interfere with analysis.
28.	Anti-Hepatitis A Virus (HAV) Antibody IgM	Serum / EDTA / Heparin Plasma	5:00 PM	Daily	Same day	Sample Stability: 7 days at 2-8 Degrees C, 6 months at -20 Degrees C. Test is unaffected by Hemolysis (1.75 g/dl), lipemia (2000 mg/dl) and icterus 5 mg/dl).
29.	Anti-Hepatitis B Core Antibody (IgM and Total) (Anti HBC-Ab)	Serum / EDTA / Heparin Plasma	5:00 PM	Daily	Same day	Sample Stability: 6 days at 2-8 Degrees C, 3 months at -20 Degrees C. Test is unaffected by Hemolysis (2 g/dl), lipemia (1500 mg/dl) and icterus 25 mg/dl).
30.	Anti-Hepatitis B "E" Antibody (Anti HBe-Ab)	Serum /Na+, Heparin / EDTA plasma	5:00 PM	Daily	Same day	Sample Stability: 5 days at 2-8 Degrees C, 3 months at -20 Degrees C. Test is unaffected by Hemolysis (2 g/dl), lipemia (1500 mg/dl) and icterus 5 mg/dl).
31.	Anti-Hepatitis B Surface Antibody (Anti HBs-Ab)	Serum / K3 EDTA Plasma	5:00 PM	Daily	Same day	Interfering substances: <b>Do not use lithium heparin plasma separating gel tubes.</b> Unaffected by icterus of up to 30 mg/dl, hemolysis of up to 1.5 g/dl and lipemia of up to 1500 mg/dl. Sample stability: 6 days at 2-8 Degrees C, 3 months at -20 degrees C.
32.	Anti-Hepatitis C Virus Antibody (Anti HCV Antibody)	Serum / EDTA / Heparin Plasma	5:00 PM	Daily	Same day	Sample stability: 7 days at 2-8 Degrees C, 4 weeks at -20 Degrees C. Mild Hemolysis, lipemia and icterus do not interfere with analysis.
33.	Anti-Hepatitis E Virus Antibody (Anti HEV Antibody) IgM	Serum /Na+, Heparin / EDTA plasma	11:00 AM	Daily	Same day	Sample stability: 7 days at 2-8 Degrees C, longer at -20 Degrees C. Repeated freeze and thaw cycles will damage the IgM. Mild Hemolysis, lipemia and icterus do not interfere with analysis.
34.	Anti-Herpes Simplex Antibody Type I (IgG / IgM)	Serum /Na+, Heparin / EDTA plasma	11:00 AM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
35.	Anti Herpes Simplex Antibody Type II (IgG / IgM)	Serum /Na+, Heparin / EDTA plasma	11:00 AM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
36.	Anti-HIV Antibody (I & II) (Screening test)	Serum / Heparin / EDTA plasma	11:00 AM	Daily	Same day	Sample is stable for 3 days at 15-25 Degrees C, 10 days at 2-8 Degrees C and 3 months at -20 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 13 mg/dl. We follow the NACO guidelines for testing and also have pre- and post test counseling facilities. It is advisable to obtain informed and written consent from the patient when samples are collected for HIV testing, and provide a copy of the signed consent form along with the request form. Pack and ship with care to avoid leakage
37.	Anti-HIV Antibody (I & II) Western Blot - Confirmatory	Serum / Heparin / K3 EDTA Plasma	10:00 AM	Daily	Same day	Sample is stable for 6 days at 15 - 25 Degrees C, 7 days at 2-8 Degrees C and longer at - 20 Degrees C. Not affected by hemolysis of 75 mg / dl, lipemia of 1500 mg/dl, and icterus of 60 mg/dl. Pack and ship with care to avoid leakage
38.	Anti-Intrinsic Factor Antibody (IF) -IgA / IgG - See Gastrointestinal profile	Serum	1:00 PM	Daily	Same day	This test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease
39.	Anti-Leptospira Antibody (IgM) (ELISA)	Serum	11:00 AM	Daily	Same day	Stable for 2 days at 2-8 Degrees C. Icterus, hemolysis and lipemia may interfere with the assay
40.	Anti Measels Antibody (IgG) (ELISA)	Serum / EDTA / Heparin Plasma	11:00 AM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
41.	Anti Mitochondrial Antibody (AMA) - Immunofluorescence	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl

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42.	Anti - Mullerian Hormone (AMH)	Serum / Plasma	11:00 AM	Mon / Wed	Same day	Used as an aid in the evaluation of the ovarian reserve and in prediction of the outcome of assisted reproductive technology. AMH values donot change significantly throughout the menstrual cycle and decrease with age. AMH concentration in serum is directly related to the antral follicle count and is a better indicator of the ovarian reserve than FSH,inhibinB or estradiolon cycle day3.
43.	Anti-Mumps Antibody (IgG) (ELISA)	Serum / EDTA / Heparin Plasma	11.00 AM	Daily	Same day	Also used in the assessment of menopausal status.
44.	Anti-Neutrophil Cytoplasmic Antibody (ANCA) (See Vasculitis Profile)	Serum / EDTA Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
45.	Anti Nuclear Antibody (ANA) - Immunofluorescence	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Fresh serum is preferred. In case of delay, store at 2-8 Degrees C. No interference with hemolysis, lipemia mg/dl or icterus. This is a screening test with the advantage of pattern identification. However, additional tests using blot assay as well as clinical correlation is required as a small percentage of apparently normal individuals show positive ANA
46.	Anti-Parietal Cell Antibody IgA / IgG (See Gastrointestinal profile)	Serum	1:00 PM	Daily	Same day	This test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease
47.	Anti-Platelet Antibody (immunofluorescence)	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
48.	Anti- Rubella Antibody (IgG and IgM)	Serum / EDTA / Heparin Plasma	5:00 PM	Daily	Same day	Sample stability: 5 days at 2-8 Degrees C, 14 weeks at -20 Degrees C. Mild Hemolysis, lipemia and icterus do not interfere with analysis. Sample turbidity may affect results
49.	Anti-Saccharomyces cerevisiae Antibodies (ASCA) IgA/ IgG (See Gastrointestinal profile)	Serum	1:00 PM	Daily	Same day	This test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease
50.	Anti- Salmonella Antibody (IgM) (part of Widal test)	Serum	2:00 PM	Daily	Next day	Assay is done as part of the Widal test in order to add specificity as well as to identify early stages of typhoid fever where IgM alone is elevated.
51.	Anti-Smooth Muscle Antibody (ASMA) - Immunofluorescence	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
52.	Anti-Sperm Antibody (ASA)	Serum / EDTA / Heparin Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl
53.	Anti-Streptolysin O (ASLO)	Serum				Sample Stability: 8 days at 2-8deg C and 3 months if frozen. Interfering substances: Sample turbidity, lipemia, monoclonal gammopathy. AntiStreptolysin O levels are elevated in about 80 - 85% cases with B hemolytic streptococcal infections.
54.	Anti- Thyroid Antibody (Microsomal and Thyroglobulin) - Immunofluorescence	Serum	1:00 PM	Daily	Same day	Detects antibodies against thyroid microsome and thyroglobulin based on pattern of fluorescence. This is a semiquantitative test and is expressed as 1+ to 4+ in positive cases
55.	Anti-Thyroid Peroxidase Antibody (Anti TPO)	Serum/Li,Na Heparin /K3 EDTA plasma	5:00 PM	Daily	Same day	Equivalent to Thyroid Microsomal Antibody. Sample stability: 3 days at 2-8 Degrees C, and 1 month at -20 Degrees C. Interfering substances: Not affected by Icterus (< 66 mg/dl) and Lipemia (< 2100 mg/dl).
56.	Anti-Tissue Transglutamase (TTG) Antibody - IgA / IgG (See Gastrointestinal Profile)	Serum	1:00 PM	Daily	Same day	This test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease

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57.	Anti-Toxoplasma Antibody (IgG and IgM)	Serum / EDTA / Heparin Plasma	5:00 PM	Daily	Same day	Sample stability: 5 days at 2-8 Degrees C, 14 weeks at -20 Degrees C. Mild Hemolysis, lipemia and icterus do not interfere with analysis. Sample turbidity may affect results
58.	Anti treponemal antibody	Serum	5:00 PM	Daily	Same day	The ID-PaGIA Syphills antibody test is a Particle Gel Immunoassay (PaGIA). High density synthetic polymer particles are coated with three recombinant treponemal antigens. Agglutination of the particles is caused by the presence of anti-T.pallidum antibodies. Then the reaction mixture is centrifuged in a gel filtration matrix. The positive agglutinated particles are trapped on the top of the gel whereas the negative non- agglutinated particles form a pellet at the bottom of the microtube. Test is done as part of VRDL assay in our lab
59.	Anti-Varicella Antibody (Anti VZV)	Serum	5:00 PM	Daily	Same day	Varicella-Zoster IgG is an automated qualitative estimation of IgG antibodies in human serum. It is intended as an aid in the determination of immunological status of the individual. Sample is stable for up to 5 days at 2-8 degrees. Frank hemolysis / lipemia interferes with the assay
60.	Apolipoprotein A	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Sample stability: Stable for 1 day at 15-25deg C, Stable for 3 days at 2-8deg C, Stable for 2 months at -20 deg C Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1000. Used for evaluation of cardiac risk, as part of lipid profile. Apo A is increased in familial hyperlipoproteinemia, pregnancy, estrogen therapy, alcohol consumption and exercise.
61.	Apolipoprotein B	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Sample stability: Stable for 1 day at 15-25deg C, Stable for 3 days at 2-8deg C Stable for 2 months at -20 deg C Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1000.
62.	Autoimmune Hepatitis Profile (AMA-M2, LKM-1, LC-1, SLA/LP)	Serum / Heparin / EDTA plasma	2:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of, lipemia, or icterus. Antibodies against SLA/LP are considered to be cardinal antibodies for autoimmune hepatitis. Other antibodies that are seen in autoimmune hepatitis are ANA, Anti ds-DNA, Smooth Muscle Antibody (SMA), LKM-1 etc. Their prevalence is about 30% but specificity is 100%.
63.	B U N / UREA (See Urea / BUN)	Serum /K2 EDTA /Li Heparin Plasma / 24 hr urine	5:00 PM	Daily	Same day	Part of renal function test
64.	Bence Jones Proteins/ Electrophoresis	Urine (Random / 24 hour urine in plain can)	1:00 PM	Daily	Next Day	Urine is concentrated in the lab prior to carrying out the test and hence reports will be available only on the next day
65.	Beta-2-Microglobulin	Serum /K2 EDTA /Li Heparin Plasma / Fresh Urine	5:00 PM	Daily	Same day	Sample stability: For Serum - 8 days at 2-8deg C and 2 months if frozen. Urine - Fresh Sample ONLY. Interfering substances: Sample turbidity, lipemia.
66.	Bicarbonate	Serum / Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 400mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1800. Bicarbonate levels decrease by 4 mmol / L in one hour in an open cup. Samples that are separated from the RBCs and stored at 2-8 Degrees C are stable for several days.

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67.	Bilirubin Direct	Serum /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering substances: Hemolysis: No significant interference up to hemoglobin concentration 25mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 35, Exposure to light. Sample Stability: 2 days at 15-25 degrees C, 7 days at 2-8 degrees C, 6 months at -20 degrees C
68.	Bilirubin Total	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering substances: Hemolysis: No significant interference up to hemoglobin concentration 25mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 35, Exposure to light. Sample Stability: 2 days at 15-25 degrees C, 7 days at 2-8 degrees C, 6 months at -20 degrees C
69.	Biopsy Study (See Histopathology)	Specimen in formalin	5:00 PM	Daily	48 hours	Proper fixation in 10% neutral buffered formalin is important for optimal results and good quality sections
70.	Bleeding Time (IVY method)	Patient to report to lab	5:00 PM	Daily	Same day	Patient to come to the lab for testing
71.	Blood Group and Rh Typing (Slide and Gel card with reverse grouping)	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of clots. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
72.	Bone Marrow Aspiration studies for routine reporting	Patient to report to lab with prior appointment / Aspiration done and air dried smears sent / Aspirate with particles in EDTA vial)	Prior appointment	Daily	Next Day	Marrow aspiration is done usually from the posterior iliac spine under local anaesthesia using aseptic precautions. Informed and understood consent from the patient is required for this procedure.
73.	Bone Marrow Aspiration studies for Immunophenotyping	Marrow aspirate in EDTA vacutainer	Prior appointment	Daily	Next day	Done by Flow cytometry
74.	Bone marrow Trepine Biopsy study	Patient to report to lab / Trepine biopsy imprints and biopsy material in formalin	5:00 PM	Daily	72 hours	Core biopsy is performed from the posterior iliac spine under local anesthesia and strict aseptic conditions. Informed consent is taken prior to the procedure
75.	Buccal Smear for Barr Body	Patient to report to lab / Scrape smears from buccal mucosa	5:00 PM	Daily	Next day	This is a screening test to detect XX genotype and should always be confirmed by cytogenetic testing in case of abnormal reports or when there is questionable correlation with clinical and other tests. Scrapes are taken from the buccal mucosa opposite the pre-molar and molar region after making the patient wash his / her mouth with clean water.
76.	CD3 / CD4 / CD8 Counts for follow up and management of HIV	EDTA Whole Blood	3:00 PM	Daily	Same day	Sample is stable for up to 24 hours at room temperature
77.	C E A (Carcinoembryonic antigen)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Unaffected by icterus (<66 mg/dl) hemolysis (<2.2 g/dl) and lipemia (<1500 mg/dl). Sample Stability: 7 Days at 2-8 Degrees C, 6 months at -20 Degrees C.
78.	C P K (Creatinine Phosphokinase)	Serum / Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1000. Sample stability: 2 days at 15-25 Degrees C, 7 days at 2-8 Degrees C, 4 weeks at - 20 Degrees C
79.	C P K MB (MB mass)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 34 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1500mg/dL. Lipemia (Intralipid) No significant interference up to concentration of 1500 mg/dl). Sample Stability: 4 hours at 15-25 Degrees C, 8 hours at 2-8 Degrees C, 3 months at - 20 Degrees C

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80.	C Reactive Protein (CRP) Ultrasensitive	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 600. Sample Stability: 3 days at 15-25 Degrees C, 8 days at 2-8 Degrees C, 3 years at -20 Degrees C. Separate serum from clot without delay.
81.	CA 125	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Unaffected by icterus (<66 mg/dl) and lipemia (<2000 mg/dl). Sample Stability: 5 days at 2-8 Degrees C, and 3 months at -20 Degrees C. It is used a) to monitor persistent / recurrent ovarian serous carcinoma b) monitor therapy of endometriosis. CA 125 is not useful for a) primary tumor diagnosis b) mucinous carcinoma of ovary. Normal concentration does not exclude tumor. CA 125 is increased in a) malignancies: nonmucinous ovarian tumors (85%), fallopian tube tumors (100%), cervical adenocarcinoma (83%), endometrial adenocarcinoma (50%), trophoblastic tumors (45%). b) endometrial pathology: pregnancy, endometriosis c) pleural/peritoneal effusion / inflammation d) other nonmalignant conditions: cirrhosis, liver necrosis, pancreatic and renal diseases.
82.	CA 19-9	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Unaffected by icterus (<66 mg/dl) and lipemia (<1500 mg/dl). Do not use Sodium Citrate plasma. Sample Stability: 30 days at 2-8 Degrees C, and 3 months at -20 Degrees C. This tumor marker can assist in differential diagnosis and monitoring of patients with pancreatic carcinoma. Patients with Serum levels above 10,000 U/ml invariably have metastatic disease
83.	Calcium – Ionized	Serum	5:00 PM	Daily	Same day	About 50% of calcium is ionized and it is this portion that is physiologically active. Total calcium levels may be unchanged even if ionic calcium levels change. Increased blood pH increases protein bound calcium reduces ionic calcium. Parathormone has the opposite effect.
84.	Calcium Total	Serum / 24 hour urine in 15 ml conc. hydrochloric acid (Final Ph to be 3-4)	5:00 PM	Daily	Same day	Interfering Substances : Any substance that contains / chelates calcium such as EDTA.Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 2000. Sample Stability: Serum - 7 days at 20-25 Degrees C, 3 weeks at 4-8 Degrees C, 8 months at -20 Degrees C. Urine - 2 days at 20-25 Degrees C, 4 days at 2-8 Degrees C, 3 weeks at - 20 Degrees C. Calcium levels are measured for diagnosis and treatment of parathyroid disease, a variety of bone diseases, chronic renal failure and tetany. Calcium plays a vital role in basic physiological functions such as coagulation, enzyme activity, glandular synthesis and regulation, cell membrane integrity etc. Major loss of calcium is in the urine. Urine calcium excretion is enhanced by hypercalcemia, phosphate deprivation,acidosis, steroids, and diminished by parathormone, diuretics and vitamin D.
85.	Carbamazepine	Serum / Heparin plasma	5:00 PM	Daily	Same day	Sample Stability: 8 hours at room temperature, 2 days at 2-8 degrees C, Longer at - 20 Degrees C. Ideal time for collection of sample is the "Trough" level which is before the morning medication.
86.	Cerebrospinal Fluid (CSF) Analysis	Fresh sample of CSF in a clean container.	5:00 PM	Daily	2 hours after delivery	Store at 2-8 degrees in case of delay. Protein, glucose, chlorides, cell count, and cell type are assayed as a routine.
87.	Ceruloplasmin	Serum / Fresh Random urine	5:00 PM	Daily	Same day	Sample Stability: 8 days at 2-8 Degrees C, 1 year at - 20 Degrees C. Ceruloplasmin is the main transport protein for copper in the blood.Serum levels are markedly Reduced in Wilson's disease and Menke's syndrome. Low levels also occur in liver failure and low protein states. Ceruloplasmin is an acute phase reactant and is increased nonspecifically in inflammatory states.



S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
88.	Cholesterol Total	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to conjugated bilirubin concentration 16 mg/dL and unconjugated bilirubin concentration 14 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 1200mg/dL. Lipemia (Intralipid) No significant interference up to Tgl concentration 1200 mg/dl Sample Stability: 7 Days at 15-25 Degrees C, 7 Days at 2-8 Degrees C, 3 Months at - 20 Degrees C.
89.	Cholesterol HDL	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to conjugated bilirubin concentration 30 mg/dL and unconjugated bilirubin concentration 60 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 700mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 2000. Sample Stability: 7 Days at 2-8 Degrees C, 30 days at - 70 Degrees C.
90.	Cholesterol LDL	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to conjugated bilirubin concentration 600 mg/dL and unconjugated bilirubin concentration 60 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 10000mg/dL. Sample Stability: 7 Days at 2-8 Degrees C, 30 days at - 70 Degrees C.
91.	Cholesterol VLDL	Serum	5:00 PM	Daily	Same day	Calculated parameter
92.	Cholinesterase (Pseudocholinesterase / Cholinesterase II)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Citrate and fluoride inhibit the reaction and must not be used. No significant interference by hemolysis / lipemia / icterus. Propanolol causes artificially low levels Sample Stability: 6 hours at 20-25 Degrees C, 7 days at 2-8 Degrees C, 6 months at -70Degrees C
93.	Chyluria	Fresh Random / Morning Urine	5:00 PM	Daily	Same day	We screen for chyle by estimating urine triglycerides. For further details, see triglycerides
94.	Clot Retraction	Patient to report to lab	3:00 PM	Daily	Same day	Use of this test is very limited
95.	Clotting time	Patient to report to lab	5:00 PM	Daily	Same day	This test is generally not recommended as there are more accurate testing methods available
96.	Cold Agglutinins Screening test	EDTA Whole Blood (2ml) and Serum (2 ml)	3:00 PM	Daily	Next Day	Samples to be collected in pre-warmed syringes and tubes
97.	Complement C3	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 600mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200mg/dL. Lipemia (Intralipid) No significant interference with triglycerides of 570 mg/dl. Sample Stability: Values tend to increase on storage.
98.	Complement C4	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 600mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200mg/dL. Lipemia (Intralipid) No significant interference with triglycerides of 240 mg/dl. Sample Stability: Values tend to increase on storage.
99.	Complete Blood Count	EDTA Whole Blood	5:00 PM	Daily	Same day if sample reaches before 1 pm. Next day if reaches later	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 12 hours at room temperature and 36 hours at room at 2-8 Degrees C
100	Complete Hemogram	EDTA Whole Blood	5:00 PM	Daily	Same day if sample reaches before 1 pm. Next day if reaches later	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 12 hours at room temperature and 36 hours at room at 2-8 Degrees C
101	Coombs Test Direct	EDTA Whole Blood	1:00 PM	Daily	Same day	For detection of anti erythrocyte antibodies on the surface of RBCs
102	Coombs Test Indirect	Serum	1:00 PM	Daily	Same day	For detection of anti erythrocyte antibodies in circulation (anti c/d/e)

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
103	Copper	Serum / Heparinized plasma / 24 hour Urine	5:00 PM	Daily	Same day	Hemolysis interferes with the procedure. Sample is stable for 14 days at 15-25 / 2-8 Degrees C.
104	Cortisol	Serum /K2 EDTA /Li Heparin Plasma / 24 hour urine without preservative (or with boric acid)	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1900 mg/dL. Lipemia (Intralipid) No significant interference with triglycerides of 2700 mg/dl. Sample Stability : Serum / Plasma: 5 days at 2-8 Degrees C, 3 months at -20 Degrees C. Cortisol is secreted by adrenal cortex under influence of ACTH, diurnal rhythm and stress. The diurnal rhythm is due to a circadian pattern of ACTH release. There is a major increase of secretion between 4 am and 8 am followed by a decrease for the day. The rhythm is absent early in Cushing's syndrome. As a routine, samples are collected one at 8 am and one at 4 pm
105	C-Peptide	Serum /K3 EDTA /Li Heparin Plasma / 24 hour urine	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 50 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200 mg/dL. Lipemia (Intralipid) No significant interference with triglycerides of 2000 mg/dl. Sample Stability: Serum / Urine : 4 hrs at 15-25 Deg C, 24 hours at 2-8 Degrees C, 30 days at -20 Degrees C. Elevated C-peptide levels may result from increased beta cell activity observed in hyperinsulinism, from renal insufficiency and obesity. Correlation was found between higher c-peptide levels and increasing hyperlipoproteinemia and hypertension. Decreased levels of c-peptide was observed in starvation, factitious hypoglycemia, hypoinsulinism, Addison's disease, and after radical pancreatectomy.
106	Creatinine	Serum/LI- Heparin /K2 EDTA plasma / 24 hr or random Urine without any preservative	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to conjugated bilirubin concentration 5 mg/dL and Hemolysis: Preferable do not test on hemolyzed samples. Lipemia (Intralipid) No significant interference up to a concentration of 250 mg/dl. Sample Stability: Serum / Plasma: 7 days at 20-25 Degrees C, 7 days at 2-8 Degrees C, 3 months at - 20 Deg. C Urine: 2 days at 20-25 Degrees C, 6 days at 4-8 Degrees C, 6 months at - 20 Degrees C.
107	Cryoglobulins (Screening test)	5 ml Clotted Blood (non-gel tube) collected under warm conditions (37 degrees)	3:00 PM	Daily	7 days	Samples to be collected in pre-warmed syringes and tubes
108	Cryptococcal Antigen (CALAS)	CSF / Serum	5:00 PM	Daily	Same day	This test detects capsular polysaccharide of cryptococcus neoformans in CSF / Serum
109	Cytology for malignant cells (Also see FNAC)	Fluid / Prepared slides	1:00 PM	Daily	Same day	Fresh fluid / properly prepared air dried smears with adequate clinical data.
110	Culture - Aerobic and antibiotic sensitivity	Urine , Pus, Serous fluids, CSF, sputum, wound swab, eye swab, corneal scrapings, tissues etc	5:00 PM	Daily	48 hours	Though majority of culture and sensitivity reports are ready in 24 hours time, a delay may be anticipated in obtaining sensitivity report in few cases. Identification and sensitivity is performed using automated equipment (ViTEK)
111	Culture - Aerobic and antibiotic sensitivity	Blood in culture broth	5:00 PM	Daily	72 hours	Culture is performed by rapid method based on optical density alterations. Identification and sensitivity is performed using automated equipment (ViTEK). Blood to be transported in broth at room temperature and not in the refrigerator
112	Culture - Aerobic and antibiotic sensitivity	Stool in sterile container	5:00 PM	Daily	72 hours	Collect stool sample in sterile container and send immediately.
113	Culture - Anerobic	Pus, Wound swab, body fluids, blood, tissue etc.	5:00 PM	Daily	10 days	Special anerobic jar is used

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
114	Culture - Fungal	Hair, nail, skin, scrapings, sputum, body fluids, CSF, corneal scrapings etc	5:00 PM	Daily	10 days	Sensitivity pattern is provided only if Candida species are grown
115	Culture - Fungal (Candida)	Blood in culture broth	5:00 PM	Daily	10 days	
116	Culture - Mycobacterial (TB) with sensitivity	Sample CSF, Pus, Sputum, Bronchial wash, body fluids, tissue, bone marrow aspirate etc	5:00 PM	Daily	10 days for culture and further 3 weeks for sensitivity	Rapid culture is performed followed by sensitivity testing. Facility for genotyping is also available which can give rapid results for first and second line drugs.
117	Cyclosporin	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample Stability: 8 hours at 18-25 Degrees C, 7 days at 2-8 degrees C, 3 months at -20 Degrees C. There are two ways of timing sample collection 1) TROUGH (C - 0) levels - sample collected before the morning medication of cyclosporine. 2) PEAK (C-2) level - 2 hours (+/- 15 minutes) after the morning dosage of medication.
118	Cystatin C	Serum/heparin plasma	5:00 PM	Daily	Same day	Lipemic samples that cannot be cleared should not be used. Sample Stability: 7 days at 2-8 Degrees C, 1 month at -20 Degrees C. Cystatin C is an early indicator of drop in glomerular filtration rate and is more sensitive than creatinine as a index of renal function
119	Cytogenetic Studies (See Karyotyping)	Na Heparin whole blood	5:00 PM	Daily	7 days	Blood to be collected and transported in sterile condition
120	D DIMER	Citrate sample	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 500 mg/dL. Lipemia (Intralipid) No significant interference with L index up to 750. Sample Stability: Plasma should be separated at the earliest. Plasma is stable for 8 hours at 15-25 Degrees C, 4 days at 2-8 Degrees C, and 6 months at -20 Degrees C. Normal / low values of D Dimer rule out DIC but high values need not necessarily confirm DIC. This needs to be correlated with clinical findings.
121	DHEA sulphate	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 13 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference with values up to 1500 mg/dl. Sample Stability: 2 days at 2-8 Degrees C, 2 months at -20 Degrees C.
122	Differential WBC Count	EDTA Whole Blood	5:00 PM	Daily	Same day if sample reaches before 1 pm. Next day if reaches later	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 12 hours at room temperature and 36 hours at room at 2-8 Degrees C
123	Digoxin	K3 EDTA /Li Heparin / Oxalate Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 65 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 560 mg/dL. Lipemia (Intralipid) No significant interference with values up to 2000 mg/dl. Sample Stability: 2 days at 2-8 Degrees C, 6 months at -20 Degrees C. Ideal time of sample collection is prior to morning dose (TROUGH level)
124	Direct HDL (See Cholesterol HDL)	Serum / K2 EDTA / LI- Heparin Plasma				Same as lipid profile

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
125	Direct LDL (See Cholesterol LDL)	Serum / K2 EDTA / LI-Heparin Plasma				Same as lipid profile
126	Du Test to confirm Rh negative	EDTA Whole Blood	4:00 pm	Daily	Same Day	To confirm Rh negative status. Some patients are found to be Rh negative on slide / gel methods but Du turns out to be positive.
127	Electrolyte Chloride	Serum /LI-Heparin plasma / 24 hour Urine, body fluids, dialysate, etc	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference with values up to 2000 mg/dl. Sample Stability: 7 days at 15-25 Degrees C, 7 days at 2-8 Degrees C, longer periods at -20 Degrees C.
128	Electrolyte Potassium	Serum /LI-Heparin plasma / 24 hour Urine, body fluids, dialysate, etc	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: Not Acceptable. Lipemia (Intralipid) No significant interference with values up to 2000 mg/dl. Sample Stability: 14 days at 15-25 Degrees C, 14 days at 2-8 Degrees C, longer periods at -20 Degrees C.
129	Electrolyte Sodium	Serum /li-Heparin plasma / 24 hour Urine, body fluids, dialysate, etc	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference with values up to 2000 mg/dl. Sample Stability: 14 days at 15-25 Degrees C, 14 days at 2-8 Degrees C, longer periods at -20 Degrees C.
130	Electrophoresis Hemoglobin	EDTA / Citrate / Heparin Whole Blood	3:00 PM	Daily	Same day	Whole Blood Sample lysis is not acceptable. Sample Stability: Samples are generally stable for 24 hours at room temperature, for 7 days at 2-8 Degrees C. For longer storage (up to 3 months), cells must be washed as per pack insert protocol and frozen at -80 Degrees C.
131	Electrophoresis Immunofixation (See Immunotyping)	Serum	3:00 PM	Daily	Same day	Used as a special test to confirm the monoclonality detected on serum protein electrophoresis and to identify the type of monoclonal protein. The test does not quantify the abnormal monoclonal protein.
132	Electrophoresis Serum Protein (Protein Electrophoresis)	Serum	3:00 PM	Daily	Same day	Used to evaluate monoclonal / polyclonal gammopathy, nephrotic syndrome, cirrhosis of liver, hypoalbuminemia etc.
133	Electrophoresis Serum Protein High Resolution	Serum	3:00 PM	Daily	Same day	
134	Electrophoresis Urine (Urine Electrophoresis and Urine BJP)	Urine (Random / 24 hour urine in plain can)	1:00 PM	Daily	Next Day	Urine is concentrated in the lab prior to carrying out the test and hence reports will be available only on the next day
135	Erythrocyte Sedimentation Rate (ESR)	EDTA blood 2 ml / ESR tube	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Sample in EDTA is stable for about 4-6 hours at room temperature and for 24 hours at 2-8 degrees C. Samples collected in Special commercially available ESR tubes for automated ESR are more stable up to 72 hours at 2-8 Degrees C.
136	Estradiol	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 66 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to 1000 mg/dl. Sample Stability: 2 days at 2-8 Degrees C, 6 months at -20 Degrees C
137	Factor VIII Assay	Citrate blood (as for PT)	1:00 pm	Daily	Same Day	Used for evaluation of bleeding tendency. Platelet poor plasma should be sent frozen.

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
138	F S H (Follicle Stimulating Hormone)	Serum / K3 EDTA / Heparin plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 64 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference <1900 mg/dl. Sample Stability: 14 days at 2-8 Degrees C, 6 months at -20 Degrees C. FSH is secreted in a pulsatile manner by the anterior pituitary, controlled by the hypothalamus. In men, it stimulates Sertoli cells to produce androgen binding protein and inhibin (for negative feedback). In menstrually active women, it along with LH stimulates development of follicular cells to produce estradiol, and inhibin. The FSH values vary according to the phase of menstrual cycle and needs to be correlated clinically. In men and amenorrhoeic women, high levels of FSH are indicative of primary hypogonadism, and low levels are indicative of secondary hypogonadism.
139	Ferritin	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Unaffected by icterus (<65 mg/dl) hemolysis (< 500 mg/dl) and lipemia (<3300 mg/dl). Sample Stability: 7 Days at 2-8 Degrees C, 12 months at -20 Degrees C.
140	Fibrinogen	EDTA / Citrate plasma	5:00 PM	Daily	Same day	Interfering Substances: Lipemia which is not clarified by centrifugation Sample Stability: 8 days at 2-8 Degrees C, 1 year at -20 Degrees C Elevated levels of Fibrinogen are expected in inflammation / trauma / surgery as an acute phase reaction. Elevated levels are associated with increased risk of atherosclerosis. Low levels may indicate DIC but may also occur in primary hyperfibrinolysis, liver insufficiency and genetic deficiency
141	Filarial Parasite	EDTA Whole Blood collected at midnight	3:00 PM	Daily	Same day	
142	Fine Needle Aspiration Cytology	Patient to report to lab / Aspiration smears air dried	5:00 PM	Daily	Same day if reaches before 1 pm.	Test is performed under aseptic conditions after obtaining consent from the patient. Please see separate instructions for sample collection for further details
143	Fluid for crystals (polarizing microscopy)	Fresh fluid	5:00 PM	Daily	Same day	Sample should reach the lab without delay.
144	Fluid Routine Analysis	Fresh sample of fluid	1:00 PM	Daily	Same day	Sample should be freshly collected. Keep in fridge if there is delay in transport
145	Folic Acid (ALSO See RBC folate)	Serum / Li Heparin Plasma.	5:00 PM	Daily	Same day	Interfering Substances: Hemolysis is not acceptable. DO NOT USE Li HEPARIN PLASMA TUBES WITH GEL Unaffected by icterus (<33 mg/dl) and lipemia (<1500 mg/dl). Sample Stability: 2 Hours at 20-25 Degrees C, 2 Days at 2-8 Degrees C, 1 month at -20 Degrees C.
146	Free Beta HCG (Also see under special panels)	Serum / Heparinized plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 16 mg/dL. Hemolysis and lipemia affect the assay results. Free Beta HCG along with PAPP-A is a useful marker for assessing fetal risk during first trimester. Ultrasound data including fetal age and nuchal thickness is required along with clinical estimate of gestational age, weight, age of patient. Free Beta HCG along with Alfa Fetoprotein and information of fetal age by ultrasound and by LMP are used to assess second trimester fetal risk. A special software called Gamma Software is utilized. Free Beta HCG can also be used for follow up of trophoblastic tumors and germ cell tumors of ovary and testis.

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
147	Free Kappa-Light Chains	Serum/Plasma/ Urine	5:00 PM	Daily	Same day	Any degree of lipemia / hemolysis is unsuitable. Serum / plasma / urine must be fresh. Stability of Serum / plasma is 4 weeks at 2-8 Degrees C, and longer periods at - 20 Degrees C. Turbid urine samples due to bacterial growth are unsuitable. Free Kappa Light Chain assay quantitates the amount of free Kappa chains and is useful in diagnosis and monitoring multiple myeloma, monoclonal gammopathies, lymphoid neoplasms, amyloidosis, light chain diseases etc. It must be used in conjunction with other tests such as immunofixation electrophoresis and Free lambda Light chains.
148	Free Lambda-Light Chains	Serum/Plasma/ Urine	5:00 PM	Daily	Same day	Any degree of lipemia / hemolysis is unsuitable. Serum / plasma / urine must be fresh. Stability of Serum / plasma is 4 weeks at 2-8 Degrees C, and longer periods at - 20 Degrees C. Turbid urine samples due to bacterial growth are unsuitable. Free Lambda Light Chain assay quantitates the amount of free Lambda chains and is useful in diagnosis and monitoring multiple myeloma, monoclonal gammopathies, lymphoid neoplasms, amyloidosis, light chain diseases etc. It must be used in conjunction with other tests such as immunofixation electrophoresis and Free Kappa Light chains.
149	Free T3	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Unaffected by icterus (<33 mg/dl) hemolysis (< 2000 mg/dl) and lipemia (<2000 mg/dl). Sample Stability: 7 Days at 2-8 Degrees C, 1 month at -20 Degrees C. About 3% of total T3 circulates as free form and is physiologically active. FT3 plays an important role in diagnosis of a) Hyperthyroidism b) monitoring patients of hypothyroidism on treatment c) Low T3 syndrome. FT3 is NOT useful to diagnose hypothyroidism. FT3 should be used in conjunction with FT4 and TSH as well as clinical examination.
150	Free T4	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Unaffected by icterus (<41 mg/dl) hemolysis (< 4300 mg/dl) and lipemia (<2000 mg/dl). Sample Stability: 7 Days at 2-8 Degrees C, 1 month at -20 Degrees C. A very small fraction 0.1% of total T4 circulates in free form, which is physiologically active. Levels are not affected by the concentrations of binding proteins. Concentration is increased in hyperthyroidism and is low in hypothyroidism. Patients on eltroxin treatment may have high levels of Free T4 in spite of being euthyroid. FT4 should be used in conjunction with FT3 and TSH as well as clinical examination. Prolonged treatment with phenytoin or carbamazepine can decrease levels of FT4.
151	Frozen Section	Fresh unfixed tissue (Prior appointment required)	6:00 PM	Daily	Same day	Reports will be communicated within 20 minutes of sample being received. Prior appointment required. Please give contact numbers to communicate report.
152	Gastrointestinal Antibody Profile - IgA / IgG (Line Immunoblot)(Gliadin, TTG, Saccharomyces cerevisiae, Intrinsic factor, Parietal cell	Serum	1:00 PM	Daily	Same day	This test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease
153	G G T P (Gamma glutaryl transpeptidase)	Serum/ K2 EDTA/ LI- Heparin plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 50 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200mg/dL. Lipemia (Intralipid) No significant interference with index of < 1500. Sample Stability: 7 days at 15-25 Degrees C, 2 days at 2-8 Degrees C, 1 year at -20 Degrees C. Even though GGT is present in all cells of the body, except muscle, the GGT in blood is contributed exclusively by liver cells. An increase in GGT is always a sign of liver damage if found in association with other enzymes. It is a very sensitive indicator of liver disease and for diagnosis of occult alcoholism. GGT is dramatically increased in intra- and post hepatic cholestasis, as well as in alcoholic liver disease, anticonvulsant therapy.

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
154	Glucose, (FBS / PPBS / RBS / GTT)	Serum / Fluoride/ LI- Heparin plasma CSF, Body Fluids	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1000. Sample Stability: Plasma / Serum without preservative should be separated from clot within 30 minutes. S=separated non-hemolyzed samples are stable for 8 hours at 15-25 Degrees C, 72 hours at 2-8 Degrees C and longer at -20 Degrees C. Gel tubes are very effective in providing a barrier between clot and serum / plasma. Fluoride plasma is stable for 24 hours at 15-5 Degrees C
155	Glucose 6-Phosphate Dehydrogenase (G6PD) Quantitative	EDTA / Heparin Whole Blood	2:00 PM	Daily	Same day	Sample is stable for 7 days at 2-8 Degrees C. Clots in sample is unacceptable
156	Glycosylated Hb	EDTA whole blood	5:00 PM	Daily	Same day	Sample is stable at 15-25 degrees for 3 days, at 2-8 degrees for 7 days, and at -20 degrees for 6 months. Hemolysate is stable at 15-25 degrees for 4 hours, 2-8 degrees for 24 hours, and for 6 months at -20 degrees. HbA1c is a glyated fraction of hemoglobin formed by attachment of sugars to the hemoglobin molecule. HbA1c reflects the average blood glucose level during the previous 2-3 months, and is thus useful to monitor the long term glucose control in diabetics. Glycosylated hemoglobin values may not be comparable with different methodologies and even different laboratories using the same methodology. When the mean annual HbA1c is <1.1 times the upper limit of normal, renal and eye complications are rare. Complications occur in 70% patients who have mean annual HbA1c > 1.7 times normal. Glycosylated Hemoglobin levels are increased in diabetes, presence of HbF, Chronic renal failure, iron deficiency anemia, alcoholism, and lead toxicity. Levels are decreased in hemolytic anemias, and in pregnancy. Calculation of Mean Blood Glucose Levels: $MPG\ mg\% = 35.6(\%HbA1c) - 77.3$
157	H C G (Human Chorionic Gonadotropin Total)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 24 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to 1400 mg/dl. Sample Stability: 3 days at 2-8 Degrees C, 12 months at -20 Degrees C. HCG is a glycoprotein, produced in the placenta during pregnancy. In non-pregnant women, it can be produced by tumors of the trophoblast, germ cell-tumors with trophoblastic components and some non-trophoblastic tumors. In pregnant women, marked elevation is associated with gestational trophoblastic tumors.
158	HAMS (Acidified Serum Lysis) Test for PNH	Serum (3ml) and EDTA Blood (2 ml)	11:00 AM	Daily	Same day	Hemolysis is not acceptable
159	Haptoglobin	Serum /K2 EDTA /Li Heparin Plasma / Fresh Urine	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 100 mg/dL. Lipemia that cannot be cleared by centrifugation is not acceptable. Sample Stability: Fresh separated seru / plasma 7 days at 2-8 Degrees C, 3 months at -20 Degrees. Urine should be fresh. Haptoglobin binds to hemoglobin released during hemolysis and the complex is removed from the blood stream. Hence low levels of Haptoglobin are seen when there is intravascular hemolysis. Being an acute phase reactant, elevated levels of haptoglobin is seen in association with inflammatory conditions
160	Hemoglobin concentration	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
161	Hemoglobin Electrophoresis (See Electrophoresis - Hemoglobin)	EDTA Whole Blood	3:00 PM	Daily	Same day	
162	Hepatitis B e Antigen (HBeAg)	Serum /Na+, Heparin / EDTA plasma	5:00 PM	Daily	Same day	Sample Stability: 7 days at 2-8 Degrees C, 3 months at -20 Degrees C. Test is unaffected by Hemolysis (1.6 g/dl), lipemia (1500 mg/dl) and icterus 25 mg/dl).
163	Hepatitis B Surface Antigen (HBsAg)	Serum / Heparin / EDTA Plasma	5:00 PM	Daily	Same day	Sample Stability: 5 days at 2-8 Degrees C, 3 months at -20 Degrees C. Test is unaffected by Hemolysis (2 g/dl), lipemia (2000 mg/dl) and icterus 40 mg/dl).
164	Hepatitis B Surface Antigen (HBsAg) - Neutralization Confirmatory	Serum / Heparin / EDTA Plasma	5:00 PM	Daily	Next day	To eliminate false positive results by using principle of neutralization with specific antibody
165	Histopathology studies	Specimen in formalin / Paraffin Blocks / Stained slides	5:00 PM	Daily	48 hours	Please refer to specific instructions for transport of histopathology specimens.
166	HLA B-27 (Flowcytometry)	EDTA Whole Blood	3:00 PM	Daily	Same day	Sample is stable for up to 24 hours at room temperature
167	Homocysteine	Serum /K2 EDTA /Li Heparin Plasma <b>Maintained in cold condition from the time of venipuncture</b>  <b>Fasting sample</b>	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis and Lipemia that is not cleared by centrifugation is not acceptable. Sample preparation and Stability: 1) All blood samples should be stored on ice immediately after venipuncture. 2) Centrifuge the samples (kept in cold) within 1 hour of collection to separate plasma / serum from the red cells. Delay in separation / storage of whole blood at room temperature will give rise to false elevation of homocysteine due to production by RBCs. Once separated, serum is stable for 7 days at 2-8 Degrees C, and for 3 months at -20 Degrees C. Elevated levels are assessed as an important factor in cardiovascular diseases as well as neural tube defects and pre-eclampsia. Elevated levels are also linked with Alzheimers disease and Osteoporosis. Certain drugs such as anti-epileptics, anti-folates, antagonists of vitamin B6, nitrous oxide anesthesia are likely to elevate homocysteine concentrations in whole blood.
168	Immunotyping (See Electrophoresis)	SERUM / Urine (Fresh random)	3:00 PM. 1:00 PM for Urine	Daily	Same day. Next day for urine	
169	Immunofluorescence study on biopsy material (Kidney / Skin)	Fresh tissue in Michel Medium / Cold Saline	5:00 PM	Daily	Next day	Tissue preservation in Michel medium or in cold saline is important. Please provide details of clinical and other lab findings
170	Immunoglobulins IgA	Serum / Fresh Urine / Fresh CSF	5:00 PM	Daily	Same day	Turbid samples that cannot be cleared by centrifugation are not suitable. Sample Stability: Serum: 8 days at 2-8 Degrees C, 1 yr at - 20 Degrees C. Urine / CSF must be fresh.
171	Immunoglobulins IgE	Serum /EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 37 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 100mg/dL. Lipemia No significant interference with values < 2200 mg/dl. Samples are stable for 7 days at 2-8 degrees, and for 6 months at -20 degrees Ig E is associated with immediate hypersensitivity reactions. An abnormal IgE levels can be seen in allergy, parasitic infestations, nephropathy, dermatoses, immune deficiency states such as Wiscott Aldrich syndrome, neoplasms such as Hodgkin's and myeloma, or may be idiopathic.
172	Immunoglobulins IgG	Serum / Fresh Urine / Fresh CSF	5:00 PM	Daily	Same day	Turbid samples that cannot be cleared by centrifugation are not suitable. Sample Stability: Serum: 8 days at 2-8 Degrees C, 1 year at - 20 Degrees C. Urine / CSF must be fresh.
173	Immunoglobulins IgM	Serum / Fresh Urine / Fresh CSF	5:00 PM	Daily	Same day	Turbid samples that cannot be cleared by centrifugation are not suitable. Sample Stability: Serum: 8 days at 2-8 Degrees C, 1 year at - 20 Degrees C. Urine / CSF must be fresh.



S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
174	Immunohistochemistry / Immunocytochemistry	Please call the lab for details or refer to the list of antibodies	1:00 PM on Tue / Fri	Wed / Sat	Wed / Sat	Proper processing of tissue is very essential. Please send the representative slide along with block. In case tissue is sent, additional charges for processing of tissue will be levied.
175	Immunophenotyping for leukemia / lymphoma	Bone marrow aspirate in EDTA vacutainer / peripheral blood in EDTA if blast count is high	2:00 PM	Daily	Next day	Sample is stable for up to 24 hours at room temperature
176	India Ink preparation for Cryptococci	CSF (Fresh sample)	5:00 PM	Daily	Same day	
177	Infectious mononucleosis test (IM) (Paul Bunnell) - Agglutination	Serum	2:00 PM	Daily	Same day	Agglutination test. Serum is stable at 2-8 Degrees for 1 day. Hemolysis, lipemia and turbidity samples are not suitable.
178	Insulin	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same Day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 90 mg/dL and Lipemia (Intralipid) No significant interference with values < 1800 mg/dl. Hemolysis interferes with the assay. Sample Stability: 4 hours at 15-25 Degrees C, 24 hours at 2-8 Degrees C, 6 months at -20 Degrees C.
179	Iron / TIBC (Total Iron Binding Capacity)	Serum /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 40 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 50 mg/dL. Lipemia (Intralipid) Not acceptable. In patients treated with iron supplements, drug bound iron may not properly react in the test and hence may yield falsely low values. Sample Stability: 7 days at 15-25 Degrees C, 21 days at 2-8 Degrees C, several years at -20 Degrees C. Serum Iron levels exhibit a diurnal variation and are highest in the mornings. Hence it is advisable to collect samples for serum iron before 11 am on any given day.
180	Karyotyping on Amniotic Fluid / Chorionic Villus biopsy for genetic abnormalities	Amniotic fluid in Sterile Syringe / Biopsy in sterile container (please call the lab)	5:00 PM	Daily	10 days	Two syringes of 10 ml (DISPOVAN MAKE) with the amniotic fluid are required. Please cap the syringe with needle and DO NOT TRANSFER INTO ANY OTHER CONTAINER.
181	Karyotyping Bone Marrow / Peripheral Blood for cancer cytogenetics	Bone Marrow Aspirate / Peripheral Blood (with good number of blasts) in Na Heparin	5:00 PM	Daily	7 days	Strict aseptic measures needed
182	Karyotyping - Peripheral Blood for genetic abnormality screening	Na Heparin Blood	5:00 PM	Daily	7 days	Strict aseptic measures needed
183	Leptospira (Dark Field examination)	EDTA blood / Serum / Fresh urine	3:00 PM	Daily	Same day	
184	L H (Luteinizing Hormone)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 66 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to 1900 mg/dl. Sample Stability: 14 days at 2-8 Degrees C, 6 months at - 20 Degrees C. LH is secreted in a pulsatile manner by the anterior pituitary. It stimulates production of estradiol in females and testosterone in males. LH assay is an essential parameter for evaluation of reproductive function. Elevated levels in azoospermic males and amenorrhic women indicates primary gonadal failure. Since the values vary with different stages of the menstrual cycle, they have to be correlated clinically

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
185.	Lactate (Lactic Acid)	Sod. Fluoride / EDTA /Li Heparin Plasma / CSF	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 18 mg/dL. Hemolysis and Lipemia: No significant interference. Blood is collected in a stasis free vein and plasma separated immediately. The plasma is stored on ice. Delay in separation could lead to increase in lactate levels. Centrifuge within 15 minutes of sample collection. Delay in centrifugation is a rejection criterion. Stability in plasma (separated): 2 hours at 15-25 Degrees C, 2 days at 2-8 Degrees C, 2 months at - 20 Degrees C Stability in CSF: 3 hours at 15-25 deg Centigrade. Blood lactate levels are increased in hypoxia due to shock, pneumonia, congestive heart failure, and in renal failure and diabetic ketoacidosis. CSF lactate is increased in bacterial meningitis, hypocapnia, ischemia etc.
186.	LDH (Lactate dehydrogenase)	Serum /LI-Heparin plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 15mg/dL, though it is preferable to use non-hemolyzed sample. Lipemia (Intralipid) No significant interference up to an L index of 1500. Centrifuged plasma should be free of platelets, which are a rich source of LDH. Sample is stable for 7 days at 15-25 Degrees C, 4 days at 2-8 degrees and at -20 degrees for 6 weeks.
187.	Lipase	Serum /LI-Heparin plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 2000. Calcium dobesilate causes artificially low lipase results at high drug concentration. Do not use calcium complexing anticoagulants such as EDTA, citrate, and fluoride. Sample Stability: 1 week at 15-25 Degrees C. 1 week at 2-8 Degrees C. 1 year at - 20 Degrees C. Pancreas is the major and primary source of lipase, and is not present in salivary glands. In acute pancreatitis, lipase rises simultaneously / earlier than amylase and remains elevated for 7-10 days. Prolonged elevation indicates poor prognosis. Combined use of amylase and lipase helps to diagnose acute pancreatitis. However, lipase may also be elevated in chronic pancreatitis, duct obstruction and in nonpancreatic conditions.
188.	Lipoprotein (a)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 2000. Sample Stability: 2 days at 15-25 Degrees C, 14 days at 2-8 Degrees C, 3 months at - 20 Degrees C. Lp(a) excess is associated with hereditary factors, and is a positive risk factor for coronary disease. In combination with elevated LDL cholesterol, the risk multiplies by 6 times.
189.	Lithium	Serum	5:00 PM	Daily	Same day	Used for monitoring the dosage of Lithium containing medications in treatment of psychiatric disorders
190.	Lupus Anticoagulant Test	Citrate Vacutainers (2 tubes for one test)	2:00 PM	Daily	Same day	Whole blood sample is stable for up to 4 hours at room temperature failing which platelet poor plasma should be frozen and transported to the lab
191.	Lymphocyte Cross Match (Tissue Cross Match) for Solid Organ Transplant	Donor and Recipient to report to lab	9:30 AM	Tuesday and Friday	Next day	Both donor and recipient should be fasting

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
192.	Magnesium	Serum /Li Heparin Plasma / Fresh Urine	5:00 PM	Daily	Same day	Interfering Substances: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Contamination with RBCs will elevate result. Lipemia (Intralipid) No significant interference up to an L index of 1700. Interfering Substances: Sample free from hemolysis. Sample Stability in serum/plasma:- 7 days at 15-25 Degrees C, 7 days at 2-8 Degrees C, 1 year at - 20 Degrees C. Urine: 3 days at 15-25 Degrees C, 3 days at 2-8 Degrees C, 1 year at -20 Degrees C. Increased serum magnesium levels occur in association with renal failure, acute diabetic acidosis, dehydrations and Addison's disease. Low levels are observed in chronic alcoholism, malabsorption, diarrhoea, pancreatitis and diuretic therapy.
193.	Malarial Parasite	EDTA Whole Blood	3:00 PM	Daily	Same day	
194.	Mantoux test	Patient to report to lab	5:00 PM	Daily	48 hours	Patient to come back for reading 48-72 hours after injection
195.	Metanephrines	24 hr Urine	11:00 AM	Daily	Same day	See specific instructions for 24 hour urine collection
196.	Microalbumin	24 hr Urine / Fresh Random urine	5:00 PM	Daily	Same day	Timed 24 hour urine collection gives the exact amount of albumin passed in 24 hour. An alternative method is to test for microalbumin creatinine ratio in random fresh urine sample. Sample stability: 7 days at 15-25 Degrees C, 1 month at 2-8 Degrees C, 6 months at -20 Degrees C. Microalbuminuria is an early indicator of diabetic nephropathy.
197.	Mixing Studies to screen for factor deficiency	Citrate blood	11:00 AM	Daily	Same day	Whole blood sample is stable for up to 4 hours at room temperature failing which platelet poor plasma should be frozen and transported to the lab
198.	NT-Pro BNP	Serum / Heparinised plasma. <b>Same sample to be collected when following up the patient</b>	5:00 PM	Daily	Same day	Automated quantitative determination of Nterminal fragment of Beta type natriuretic peptide in human serum or plasma ( lithium heparin ) as an aid in the diagnosis of Congestive Heart Failure. NT-proBNP determination is used to identify patients with left ventricular dysfunction and helps to differentiate between cardiac and pulmonary dyspnoea. The test has a very high negative predictive value. Serum once separated is stable for 3 days at 2-8 degrees.
199.	O T (operation theatre) swabs for culture	Swabs	6:00 PM	Daily	2 days for aerobic and 10 days for anerobic	See special instructions for sample collection and transport of OT swabs
200.	Osmotic Fragility Test	Na Heparin Blood	11:00 AM	Daily	Same day	Sample should reach the lab without delay.
201.	PAP (Cervical / Vault Smear) for Cytology	Patient to come to lab/ Smears	1:00 PM	Daily	Same day	Performed by lady pathologist after obtaining consent from patient
202.	PAPPA (Pregnancy Associated Plasma Protein A) (Listed under special panels)	Serum / Heparinized plasma	5:00 PM	Daily	Next Day	Icterus: No significant interference up to bilirubin concentration 40 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 250 mg/dL. Lipemia (Intralipid) No significant interference up to 800 mg/dl. PAPP-A along with Free Beta HCG is a useful marker for assessing fetal risk during first trimester. Ultrasound data including fetal age and nuchal thickness is required along with clinical estimate of gestational age, weight, age of patient.
203.	P S A (Free Hormone) (Prostate Specific Antigen)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 65 mg/dL. Hemolysis: No significant interference upto hemoglobin concentration of 1000 mg/dl, Lipemia (Intralipid) No significant interference up 1500 mg/dl. Sharp increase of free PSA levels is noted following digital / surgical manipulation of the prostate and it is best to avoid testing for at least 48 hours following such procedures. Sample Stability: 5 days at 2-8 Degrees C, 6 months at - 20 Degrees C. PSA has three forms a) PSA bound to antichymotrypsin, b) Free PSA, c) Bound to alpha 2 macroglobulin. Free PSA concentrations are found to be highest in patients with BPH than inpatients with cancer, and hence a percentage of > 25% is indicative of benign disease.

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
204.	P S A (Total) (Prostate Specific Antigen)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 65 mg/dL. Hemolysis: No significant interference upto hemoglobin concentration of 2200 mg/dl, Lipemia (Intralipid) No significant interference up 1500 mg/dl. Sharp increase of PSA levels is noted following digital / surgical manipulation of the prostate and it is best to avoid testing for at least 48 hours following such procedures. Sample Stability: 5 days at 2-8 Degrees C, 6 months at - 20 Degrees C. PSA is synthesized by the epithelial cells of prostate and is perhaps the best tumor marker discovered. It has high tissue specificity but lacks cancer specificity. Because of fairly high tissue specificity, PSA is used to monitor success of surgical prostatectomy (levels should become undetectable with complete removal), and as an indicator of recurrence of cancer following radical surgery. The use of PSA along with transrectal ultrasound / DRE is recommended as a screening tool for prostate disease.
205.	Parathyroid Hormone	Serum /K3 EDTA Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 65 mg/dL. Hemolysis: Lipemia (Intralipid) No significant interference up 1500 mg/dl. <b>Hemolysis will affect the results.</b> Sample Stability: The half life of PTH is very short and hence serum must be separated immediately. Stability is slightly longer in K3 EDTA plasma. Sample Stability: Serum: 8 hours at 15-25 Degrees C, 2 days at 2-8 Degrees C, 6 months at -20 DegreesC. K3 EDTA Plasma: 2 days 15-25 Degrees C, 3 days at 2-8 Degrees C, 6 months at -20 Degrees C. Parathyroid hormone(PTH) is formed in the parathyroid glands and secreted into the blood stream. Intact PTH consists of a single polypeptide chain containing 84 amino acids and has molecular weight of approx. 9500 daltons. The biologically active N-terminal fragment has a half life of only a few minutes.
206.	Partial Thromboplastin Time (APTT)	Citrate blood / Citrate Plasma	5:00 PM	Daily	Same day	Whole blood sample is stable for up to 4 hours at room temperature failing which platelet poor plasma should be frozen and transported to the lab
207.	Peripheral Blood Smear Examination	EDTA Whole Blood / Well prepared smear	5:00 PM	Daily	Same day if sample reaches before 1 pm.	Smears should be made from freshly drawn sample. Slides should be clean and grease-free. If stained slides are sent, please ensure that there are no stain deposits. If unstained slides are sent, please fix them in methanol for 10 minutes before packing in tissue paper.
208.	Phenobarbital	Serum / Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 38.4 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dl. Lipemia (Intralipid) No significant interference up to 3193 mg/dl triglycerides Total protein :No significant interference up to 12g/dl total protein. Sample Stability: Unhemolyzed sample is preferable. 8 hours at 15-25 Degrees C, 48 hours at 2-8 Degrees C, longer periods at -20 Degrees C. It is best to monitor trough levels ( before taking morning medications), unless specified by the treating physician.
209.	Phenytoin	Serum / Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 29.1 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dl. Lipemia (Intralipid) No significant interference up to 2763 mg/dl triglycerides Total protein :No significant interference up to 12g/dl total protein. Sample Stability: Unhemolyzed sample is preferable. 8 hours at 15-25 Degrees C, 48 hours at 2-8 Degrees C, longer periods at -20 Degrees C. It is best to monitor trough levels ( before taking morning medications), unless specified by the treating physician.

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
210.	Phosphorous (Blood)	Serum /K2 EDTA /Li Heparin Plasma / 24 hour urine without preservative (or with boric acid)	5:00 PM	Daily	Same day	Icterus: No significant interference up to unconjugated bilirubin concentration 60 mg/dL. and conjugated bilirubin concentration 40 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 300 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1250 Sample Stability: Serum / plasma : 24 hours at 15-25 Degrees C, 4 days at 2-8 Degrees C, 1 year at -20 Degrees C. Blood samples are best collected in fasting state, in the morning, since levels are higher in the afternoon, and levels are influenced by dietary intake. Urine is stable for 8 hours at 15-25 Degrees C. For 24 hour urine (stored cool during collection)
211.	Platelet Count	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
212.	Progesterone	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 54 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up 720 mg/dl. Sample Stability: 5 days at 2-8 Degrees C, 6 months at -20 Degrees C. Progesterone is one of the main steroid hormones secreted by the ovary, and levels increase at the time of ovulation to reach a peak at mid luteal phase. Progesterone assay along with estradiol, FSH and LH enable prediction of ovulation date in cases of infertility / abortion where IVF is planned.
213.	Prolactin	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 30 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 1500 mg/dL. Lipemia (Intralipid) No significant interference up 1500 mg/dl. Sample Stability: 14 days at 2-8 Degrees C, 6 months at -20 Degrees C. Prolactin is a glycoprotein synthesized by the anterior lobe of the pituitary gland in a pulsating manner with highest level during sleep. It plays an important role in females by initiating and maintaining lactation. Hyperprolactinemia is associated with infertility problems in both men and women. It must be remembered that prolactin values tend to fluctuate considerably during different times of the day and an average of at least 3 different sample assays should be taken in to consideration and viewed in the context of clinical findings.
214.	Protein (Albumin)	Serum /K2 EDTA /Li Heparin Plasma. <b>Do Not Use Fluoride Plasma</b>	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 550 Samples are stable for 75 days at 15-25 Degrees C, 5 months at 2-8 degrees and for 4 months at -20 degrees.
215.	Protein (Total)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 20 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 2000. Sample Stability: 3 days at 2-8 Degrees C, 6 months at -20 Degrees C.
216.	Protein	24 hr Urine, CSF, Body fluids. Avoid blood contamination	5:00 PM	Daily	Same day	Sample Stability: Urine: 1 year at -20 Degrees C, CSF: 3 days at 15-25 Degrees C, 6 months at 2-8 Degrees C, long periods at -20 Degrees C.
217.	Protein Electrophoresis (See Electrophoresis - Protein)	Serum	3:00 PM	Daily	Same day	
218.	Protein Electrophoresis (High Resolution)	Serum	3:00 PM	Daily	Same day	
219.	Prothrombin Time (PT / INR)	Citrate blood / Citrate plasma	5:00 PM	Daily	Same day	Whole blood sample is stable for up to 24 hours at room temperature failing which platelet poor plasma should be frozen and transported to the lab

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
220.	RBC Count	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
221.	RBC folate	EDTA / Heparin Whole blood	5:00 PM	Daily	Same day	Interfering Substances: Hemolysis is not acceptable. Unaffected by icterus (<33 mg/dl) and lipemia (<1500 mg/dl). Sample Stability: 2 Hours at 20-25 Degrees C, 2 Days at 2-8 Degrees C, 1 month at -20 Degrees C. More than 95% of folate occurs in the RBCs and hence measurement of RBC folate more truly reflects overall folate concentration in the tissue.
222.	RBC Indices (Hematocrit (PCV) MCV, MCH, MCHC)	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 12 hours at room temperature and 36 hours at 2-8 Degrees C
223.	Reticulocyte Count	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 12 hours at room temperature and 36 hours at 2-8 Degrees C
224.	Rheumatoid Factor (RF/RA test)	Serum / plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 40 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 300 mg/dL. Lipemia (Intralipid) No significant interference up to lipemic index of 2000. Sample Stability: 24 hours at 15-25 Degrees C, 3 days at 2-8 Degrees, 4 weeks at -20 degrees. The test is designed to detect IgG class of autoantibodies directed against Fc fragment of IgG molecule.
225.	Semen Analysis (WHO protocol)	Patient to report to lab	1:00 PM	Daily	Same day	Period of abstinence should be 4-7 days. Entire sample to be collected into fresh clean dry container by masturbation
226.	S G O T (AST) (Aspartate amino transferase)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 40 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 150. Sample Stability: 24 hours at 15-25 Degrees C, 7 days at 2-8 Degrees C
227.	S G P T (ALT) (Alanine amino transferase)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 200 mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 150. Sample Stability: 3 days at 15-25 Degrees C, 7 dys at 2-8 Degrees C, longer at -20 Degrees C. SGPT (ALT) activity is specific to liver and other organs contribute to a small amount. It is a useful indicator of liver disease and should be used in conjunction with other enzyme studies. Levels > 15 times the upper limit are always indicative of acute liver damage. SGPT is elevated even before bilirubin increases.
228.	SHBG (Sex Hormone Binding Globulin) And calculated free testosterone	Serum / Li Heparin Plasma. <b>Do not use EDTA plasma</b>	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 60 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 2900 mg/dL. Lipemia (Intralipid) No significant interference up to 2700 mg/dl). Do not use EDTA plasma. Sample Stability: 3 days at 2-8 Degrees C, 30 days at -20 Degrees C. SHBG is the transport protein for testosterone and estradiol. Testosterone and estradiol circulate in the bloodstream, bound mostly to SHBG. Only a small fraction is unbound, or "free," and thus biologically active and able to enter a cell and activate its receptor. The SHBG inhibits the function of these hormones. Thus bioavailability of sex hormones is influenced by the level of SHBG. Conditions with low SHBG include polycystic ovary disease, diabetes and hypothyroidism. Conditions with high SHBG include pregnancy, hyperthyroidism and anorexia nervosa
229.	Sickling Test	EDTA Whole Blood	5:00 PM	Daily	Next day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
230.	Skin Clip For LEPRO bacilli	Patient to come to the lab	5:00 PM	Daily	Same day if sample reaches before 1 pm.	
231.	Smear for AFB stain (ZN / Auramine O)	urine, CSF, Pus, Sputum, Bronchial wash, Serous fluids	5:00 PM	Daily	Same day if sample reaches before 1 pm.	Fresh sample / air dried smear made on clean glass slides
232.	Smear for Diphtheria (KLB) - Albert stain	Throat swab from patch	5:00 PM	Daily	Same day	Fresh sample / air dried smear made on clean glass slides
233.	Smear for Fungus (Wet mount / KOH preparation)	Hair, nail, skin scrapings, sputum, body fluids, CSF, corneal scrapings	5:00 PM	Daily	Same Day	
234.	Smear for Gonococci (Gram stain)	Urethral discharge on clean slide	5:00 PM	Daily	Same day	Fresh sample / air dried smear made on clean glass slides
235.	Smear for Gram stain	sputum, pus, corneal scrapings, synovial fluid, urethral discharge etc	5:00 PM	Daily	Same day	Fresh sample / air dried smear made on clean glass slides
236.	Smear for Pneumocystis carinii (PCP) Calcofluor White	Sputum, bronchial lavage	2:00 PM	Daily	Same day	Fresh sample
237.	Smear for Trichomonas and Candida (Wet preparation)	Patient to come to the lab	5:00 PM	Daily	Same day	No special preparation required
238.	sTfR (soluble Transferrin Receptors)	Serum / Heparin blood	5:00 PM	Daily	Same day	Turbid samples that cannot be cleared by centrifugation are not suitable. Sample Stability: Serum: 8 days at 2-8 Degrees C, 1 year at - 20 Degrees C. Levels of sTfR in blood increase with iron deficiency, once the iron stores in the body are depleted. Hence it is a good indicator of functional iron deficiency much before reduction of hemoglobin concentration occurs. Unlike ferritin, sTfR is not affected by acute phase response. We do this assay as part of the iron profile
239.	Stool Examination (including Ova and Cysts)	Fresh stool sample	5:00 PM	Daily	Same day	Stool sample from abnormal looking part should be collected in a clean dry container. Avoid carb board / paper / match boxes. Send sample within 1 hour after collection
240.	Stool Hanging Drop for V cholerae	Fresh sample of Watery stool	5:00 PM	Daily	Same day	Fresh sample in clean fresh container
241.	Stool Occult Blood	Fresh stool sample (see instructions)	5:00 PM	Daily	Same day	Stool sample from abnormal looking part should be collected in a clean dry plastic container. Avoid carb board / paper / match boxes. Send sample within 1 hour after collection. Avoid intake of analgesics, iron tablets etc, beet roots, meat at least 48 hours prior to test.
242.	T 4 (Total thyroxine)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 37 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 2300 mg/dL. Lipemia (Intralipid) No significant interference up to 2500 mg/dl. Sample Stability: 7 days at 2-8 Degrees C, 30 days at - 20 Degrees C.
243.	T 3 (Total tri-iodothyronine)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 37 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 2300 mg/dL. Lipemia (Intralipid) No significant interference up to 2500 mg/dl. Sample Stability: 7 days at 2-8 Degrees C, 30 days at - 20 Degrees C.

S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
244.	T S H (thyroid stimulating hormone)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 41 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to 1500 mg/dl. Sample Stability: 7 days at 2-8 Degrees C, 30 days at - 20 Degrees C. This is a 3rd Generation Sandwich Electrochemiluminescence Assay with analytical sensitivity of 0.005 micro IU/mL
245.	Tacrolimus	EDTA Whole blood	1:00 PM	Daily	Same day	Sample Stability: 8 hours at 15-25 Degrees C, 1 week at 2-8 Degrees C, 6 months at - 20 Degrees C. Collection and assay of trough levels is advisable.
246.	Testosterone (Total)	Serum /K2 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 30 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 1800 mg/dL. Lipemia (Intralipid) No significant interference up to 2000 mg/dl. Sample Stability: 7 days at 2-8 Degrees C, 6 months at - 20 Degrees C.
247.	Thyroglobulin	serum/ EDTA / Heparin plasma	5:00 PM	Daily	Same day	Icterus: No significant interference up to bilirubin concentration 36 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 1900 mg/dL. Lipemia (Intralipid) No significant interference up to 2000 mg/dl. Sample Stability: 24 hours at 15-25 Degrees C, 3 days at 2-8 Degrees C, 1 month at -20 Degrees C. In cases of congenital hypothyroidism the determination of Tg can be used to distinguish between complete absence of the thyroid gland, thyroid hypoplasia or other pathological conditions. On the other hand, injury to the follicle wall can result in larger quantities of Tg passing into the blood. Tg is hence regarded as a marker for the morphological integrity of the thyroid gland. In subacute thyroiditis, Tg levels will be high but in factitious thyrotoxicosis, Tg will be low. Tg levels are also useful as tumor markers for differentiated thyroid malignancies
248.	Thyroid Anti-Peroxidase (see Anti Thyroid Peroxidase Anti TPO)	Serum	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 37 mg/dL Hemolysis: No significant interference up to hemoglobin concentration 2300 mg/dL. Lipemia (Intralipid) No significant interference up to 2500 mg/dl. Sample Stability: 7 days at 2-8 Degrees C, 30 days at - 20 Degrees C.
249.	Total (WBC) Count	EDTA Whole Blood	5:00 PM	Daily	Same day	Sample should be mixed properly and should be free of micro clots and frothing. Samples are stable for 48 hours at room temperature or at 2-8 Degrees C
250.	Treponema pallidum Hemagglutination	Serum	1:00 PM	Daily	Same day	Sample stability: 5 days at 2-8 Degrees C, 4 weeks at - 20 Degrees C. Hemolysis, lipemia and icterus interfere with analysis. Sample turbidity may affect results
251.	Triglycerides	Serum /K2 EDTA /Li Heparin Plasma. <b>Fasting sample only</b>	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to conjugated bilirubin concentration 10 mg/dL and unconjugated bilirubin concentration 35 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 700 mg/dL. Lipemia (Intralipid) The L index correlates with sample turbidity but not with triglycerides level. Extremely lipemic samples (tgL greater than 3000mg/dl) can produce a normal result. Sample Stability: 7 days at 2-8 Degrees C, 3 months at -20 Degrees C.
252.	Troponin I	Serum / Li Heparin Plasma	5:00 PM	Daily	Same day	Sample is stable for 2 days at 2-8 Degrees C and 4 months at - 20 Degrees C. Not affected by hemolysis of 500 mg/dl, lipemia of 3000 mg/dl, and icterus of 30 mg/dl
253.	Tzanck Smears	Patient to report to lab / Smears from vesicle	1:00 PM	Daily	Same day	Fresh sample / air dried smear made on clean glass slides
254.	Urea / BUN	Serum /Na+, Heparin /EDTA plasma / Urine 24 hour collection	5:00 PM	Daily	Same day	Sample Stability: Serum / Plasma 7 days at 15-25 Degrees C, 7 days at 2-8 Degrees C, 1 year at -20 Degrees C. Urine 2 days at 15-25 Degrees C, 7 days at 2-8 Degrees C, 1 month at -20 Degrees C Interfering Substances: Icterus: No significant interference up to bilirubin concentration 60mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 1000mg/dL. Lipemia (Intralipid) No significant interference up to an L index of 1000.



S No.	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
255.	Uric Acid	Serum /K2 EDTA /Li Heparin Plasma / 24 hour urine without preservative. Should be alkaline (pH > 8, with NaOH)	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 40 mg/dL.. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to an index of 1500. Sample Stability: Serum / Plasma: 5 days at 2-8 Degrees C, 6 months at -20 Degrees C. Alkalinized urine: 4 days at 15-25 Degrees C
256.	Urine Dysmorphic RBCs	Fresh urine	5:00 PM	Daily	Same day	Fresh sample collected in a clean dry container
257.	Urine Examination (Routine + BilePigments)	Fresh Urine	5:00 PM	Daily	Same day	Fresh sample collected in a clean dry container
258.	Urine Electrophoresis / Urine Bence Jones Proteins	Fresh Spot Urine / 24 hr urine	3:00 PM	Daily	Next Day	Urine is concentrated in the lab prior to carrying out the test and hence reports will be available only on the next day
259.	Urine Myoglobin Screening	Fresh Urine	3:00 PM	Daily	Same day	Presence of RBCs in the urine negates the utility of this screening test.
260.	Urine Pregnancy Test	Fresh First Morning Urine in Clean Dry Container	5:00 PM	Daily	Same day	First morning sample collected in a clean dry plastic container. If sample cannot be delivered to lab in 1 hour, please keep at 2-8 Degrees C
261.	Valproic acid	Serum / Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 40 mg/dL.. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to 1900 mg/dl. Sample Stability: 8 hours at 15-25 Degrees C, 48 hours at 2-8 Degrees C, longer at -20 Degrees C. Unless specified by the treating physician, trough levels samples are collected
262.	Vasculitis Profile (ANCA - MPO & PR3; and Anti GBM) - Immunoblot	Serum	1:00 PM	Daily	Same day	Tests for presence of antibodies of the ANCA class and GBM
263.	Vitamin B12	Serum /Na+, Heparin / K3 EDTA plasma. <b>Fasting Sample</b>	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 65 mg/dL.. Hemolysis: No significant interference up to hemoglobin concentration 1000 mg/dL. Lipemia (Intralipid) No significant interference up to an index of 1500. Sample Stability: 2 days at 2-8 Degrees C, 2 months at -20 Degrees C. Patient should be fasting when the blood is collected.
264.	Vitamin D (25-Hydroxy vitamin D)	Serum /K3 EDTA /Li Heparin Plasma	5:00 PM	Daily	Same day	Interfering Substances: Icterus: No significant interference up to bilirubin concentration 12 mg/dL. Hemolysis: No significant interference up to hemoglobin concentration 100 mg/dL. <b>Lipemic samples should not be used.</b> Sample Stability: Serum:and K3 EDTA Plasma 8 hours at 18-25 Degrees C, 4 days at 2-8 Degrees C, 6 months at -20 Degrees C. Li Heparin Plasma: 8 hours at 18-25 Degrees C, 1 day at 2-8 degrees C, <b>Do not freeze Li Heparin samples.</b>
265.	VMA (Vanilyl Mandelic Acid)	24 hr Urine	3:00 PM	Daily	Same day	See specific instructions for collection of 24 hour samples
266.	Water for bacteriological analysis	Water in sterile container	5:00 PM	Daily	10 days	Clean catch of sample is preferred
267.	Weil Felix Test (Tube agglutination)	Serum	3:00 PM	Daily	Next day	Sample stability: 5 days at 2-8 Degrees C, 4 weeks at -20 Degrees C. Mild Hemolysis, lipemia and icterus do not interfere with analysis. Sample turbidity may affect results. Cross reactions are known and results should be interpreted with clinical details
268.	Widal Test (including anti-salmonella antibody IgM) (Tube agglutination and slide agglutination)	Serum	3:00 PM	Daily	Next day	Results should be correlated with clinical findings as well as with other lab reports including anti-salmonella antibody test

## Molecular Biology

S No	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
			Sample to reach before	Test Done on	Report ready on	
1.	<b>Genotyping of Tuberculosis bacteria for antibiotic sensitivity of first line antibiotics (HAIN test I)</b>	Respiratory tract samples (Fresh) or samples such as fluids and pus which are stain / culture positive.	Before 5:00 PM on Saturday / Tuesday	Monday / Wednesday	Evening of test day	This is a molecular genetic assay for identification of resistance to first line anti-tubercular drugs. It is based on DNA.STRIP technology. It has the greatest advantage of time saving. However, its efficacy has been tested only in respiratory tract specimens that are positive for MTb.
2.	<b>Genotyping of Tuberculosis bacteria for antibiotic sensitivity of second line antibiotics (HAIN test II)</b>	Respiratory tract samples (Fresh) or samples such as fluids and pus which are stain / culture positive.	Before 5:00 PM on Thursday	Friday	Evening of test day	This is a molecular genetic assay for identification of resistance to f second line anti-tubercular drugs. It is based on DNA.STRIP technology. It has the greatest advantage of time saving. However, its efficacy has been tested only in respiratory tract specimens that are positive for MTb.
3.	<b>PCR / Viral Load for Hepatitis B Virus DNA</b>	EDTA Whole Blood / Plasma (Frozen)	Before 5:00 PM on Mon / Wed / Fri	Tuesday / Thursday / Saturday	Evening of test day	It is a real-time PCR based on amplification of specific regions of the viral genome. Whole blood may be shipped at 2-8 Degrees C and plasma should be deep frozen.
4.	<b>PCR / Viral Load for Hepatitis C Virus RNA</b>	EDTA Whole Blood / Plasma (Frozen)	Before 5:00 PM on Thursday	Friday	Evening of test day	It is a real-time PCR based on amplification of specific regions of the viral genome. Whole blood may be shipped at 2-8 Degrees C and plasma should be deep frozen.
5.	<b>PCR / Viral Load for HIV RNA</b>	EDTA Whole Blood / Plasma (Frozen)	Before 5:00 PM on Saturday / Tuesday / Thursday	Monday / Wednesday / Friday	Evening of test day	This is a real-time NASBA amplification assay was developed for measurement of HIV-1 viral load in plasma using molecular beacon-based detection technology. If shipment and delivery can be accomplished within 24 hours of collection, the EDTA plasma sample may be shipped with ice / cool pack. In case of anticipated delay it is better to transport the sample frozen.
6.	<b>PCR for Tuberculosis RNA</b>	Any fresh material other than blood, in a sterile container	Before 5:00 PM on Monday / Wednesday / Friday	Tuesday / Thursday / Saturday	Evening of test day	Samples used are sputum, tracheal aspirates, bronchial specimens, urine, CSF, pus, tissues, wound swabs. Gen-Probe's AMPLIFIED MTD Test detects Mycobacterium tuberculosis rRNA directly and rapidly while delivering the sensitivity of culture. Being an rRNA test, a positive result indicates active infection. The test is specific for Mycobacterium tuberculosis complex and is based on transcription mediated amplification technique (TMA). Samples are preferably transported long distances in cold pack.

## Special panels

S No	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
			Sample to reach before	Test Done on	Report ready on	
1.	ANA Profile (Immunoblot) for nRNP, Sm, SS-A, SS-B, Ro-52, Scl-70, PM-Scl, Jo-1, CENP-B, PCNA, dsDNA, Nucleosomes, Histones, Rib-P protein, AMA- M2	Serum / Heparin Plasma	2:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 500 mg/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl. This test is based on immunoblot principle and detects antibodies to 13 nuclear antigens. It should be used in conjunction with screening tests for ANA by immunofluorescence. The test is semiquantitative and expressed as + to ++++
2.	First Trimester Gestation Risk Analysis (Free Beta HCG and PAPPA)	Serum along with pregnancy scan report with indication of nuchal thickness. To be sent in prescribed format	3:00 PM	Daily	Same day	Downs syndrome occurs in about 1:650 live births and the risk increases with maternal age to as high as 1:23 live births at maternal age of 45 years and above. Prenatal tests performed at different gestational ages assess the relative risk of chromosomal abnormalities in the fetus. Factors considered in first trimester ( <b>11 to 14 weeks</b> ) 1) Maternal age 2) Clinical assessment of gestational age 3) Ultrasound findings (Nuchal translucency - NT, Nasal bone - NB, fetal age by sonography 4) Biochemical markers such as PAPPA and Free Beta HCG. With all these details, a software analysis is made and estimated risk is reported. It is very important for all data to be furnished.
3.	Gastrointestinal Antibody Profile - IgA / IgG (Line Immunoblot) (Gliadin, TTG, Saccharomyces cerevisiae, Intrinsic factor, Parietal cell	Serum	1:00 PM	Daily	Same day	This line immunoassay test detects a panel of antibodies that are involved in causation of coeliac disease / pernicious anemia / crohns disease. It is a qualitative test and is expressed as positive or negative
4.	Myositis Profile	Serum, EDTA / Heparin / citrate plasma	1:00 PM	Daily	Same day	This line immunoassay provides a qualitative assay for human autoantibodies of IgG class to 7 different antigens: Mi-2, Ku, PM-Scl100, PM-Scl175, Jo-1, SRP, PL-7, PL-12, EJ, OJ and Ro-52. This test is indicated in patients suspected to suffer from dermato / polymyositis, idiopathic myositis, antisynthetase syndrome, overlapping syndrome. Samples are stable at 2-8 degrees for up to 14 days
5.	Second Trimester Gestation Risk Analysis (Alpha Feto Protein (AFP) and Free Beta HCG)	Serum along with clinical details To be sent in prescribed format	1:00 PM	Daily	Same day	Downs syndrome occurs in about 1:650 live births and the risk increases with maternal age to as high as 1:23 live births at maternal age of 45 years and above. Prenatal tests performed at different gestational ages assess the relative risk of chromosomal abnormalities in the fetus. Factors considered in second trimester ( <b>15 to 18 weeks</b> ) 1) Maternal age 2) AFP and Free Beta HCG. With all these details, a gamma software analysis is made and estimated risk is reported. It is very important for all the data to be furnished.
6.	Vasculitis Profile (ANCA - MPO & PR3; and Anti GBM) - Immunoblot	Serum / EDTA Plasma	1:00 PM	Daily	Same day	Sample is stable for 14 days at 2-8 Degrees C. Not affected by hemolysis of 1g/dl, lipemia of 2000 mg/dl, and icterus of 40 mg/dl. Antibodies to GBM and ANCA are known to co-exist or to occur sequentially in up to 30 % patients with vasculitis syndromes - especially those presenting as pulmonary - renal syndrome and hence it is important for both these antibodies to be measured together.

## Immunohistochemistry

S. No	Name of Test	Type of sample	Testing Schedule			Special Remarks on Collection and Sample Stability
			Sample to reach before	Test Done on	Report ready on	
1	Estrogen Receptor (ER)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Useful in breast carcinomas to determine whether the tumor is likely to respond to endocrine manipulation. Also used in management of endometrial malignancies
2	Progesterone Receptor (PR)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Useful adjunct to ER in breast carcinomas to determine whether the tumor is likely to respond to endocrine manipulation.
3	Her-2/Neu (c-erb B2)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	A transmembrane glycoprotein which is expressed in breast cancers that may respond to herceptin treatment
4	Ki-67	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Indicative of proliferative activity of a cell. Antigen expression is highest in the M phase followed by G1, S and G2 phases. Assessment of proliferative activity is an important predictor of tumor behaviour
5	Epithelial Membrane antigen (EMA)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Is expressed on epithelial membranes of breast and lung tumors. Useful when interpreted cytokeratin markers
6	Pan-Cytokeratin (PAN-CK)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Forms a major part of the cytoskeleton on epithelial cells and is expressed by almost all epithelia. Used to differentiate epithelial from non-epithelial cell tumors
7	Desmin	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Intermediate filament expressed by cells of smooth, cardiac and skeletal muscle. Useful marker for muscle tumors
8	S-100 Protein	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Seen in a variety of tumors and may be used in conjunction with other markers
9	CD-117 (C-KIT)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	In specific situations it is a useful marker to identify gastrointestinal stromal tumors that would be responsive to specific treatment
10	CD-45 (LCA)	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Leukocyte common antigen which is seen on lymphoid cells, monocytes and eosinophils. Can be used to identify lymphocytic lineage in undifferentiated malignancy
11	CD-3	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Marker of T cells
12	CD-20	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Marker of B cells
13	HMB-45	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Marker for malignant melanoma
14	Vimentin	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Intermediate filament found in non-muscle mesenchymal cell types and in sarcomas and lymphomas
15	Factor VIII r Ag	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	The best available marker for endothelial cells. Positive in vascular neoplasms
16	Complement C4d	Tissue / paraffin block	Tue / Friday	Wed / Saturday	Thursday / Monday	Important marker for both acute and chronic antibody mediated allograft rejection

## Profiles

Name of profile	Tests included
ANEMIA PROFILE I (For microcytic anemias)	Complete hemogram with indices, Reticulocyte count, Serum iron, Total and un-bound iron capacity, Transferrin saturation, Serum Ferritin, Hemoglobin electrophoresis. Soluble Transferrin Receptor may be requested additionally
ANEMIA PROFILE II (For Macrocytic anemias)	Complete Hemogram with indices, Reticulocyte count, Vitamin B12, Folic Acid, Antibody to Gastric Parietal cells & Intrinsic Factor, Coombs test (Direct & Indirect). RBC folate may be requested additionally
ANEMIA PROFILE III (For Hemolytic anemias)	Complete Hemogram with indices, Reticulocyte count, Coombs test (Direct & Indirect), Hemoglobin electrophoresis, Osmotic fragility, HAM's test, G6PD levels
ANTI NUCLEAR ANTIBODY PROFILE (Line immunoblot assay)	Antibodies to Nrnnp/Sm, Sm, SS-A, Ro-52, SS-B, Scl-70, PM-Scl, Jo-1, CENP B, PCNA, ds DNA, Nucleosomes, Histones, rib. P-Protein, AMA-M2
ANTI PHOSPHOLIPID ANTIBODY PROFILE -	Anti-cardiolipin antibody IgM and IgG, Lupus anticoagulant
ARTHRITIS PROFILE – I	RA test,ANTIBODY TO CITRULLINATED C PEPTIDE (Anti CCP), High Sensitivity CRP, ANA ESR, Uric Acid, ASLO,
ARTHRITIS PROFILE – II	RA test, High Sensitivity CRP, ANA, ESR, Uric Acid, ASLO
ANTENATAL CHECKUP PROFILE -	Hemogram, Blood Group, VDRL, HIV, HBsAg, Random blood sugar . Please refer to First and Second Trimester risk factor assessment for additional ainformation
“BAD OBSTETRIC HISTORY”	Lupus anticoagulant, Anti-cardiolipin antibody (IgG & IgM), VDRL, TORCH (IgG), HIV, Random Blood Sugar. karyotyping and ToRCH assays may be performed as additional tests
CARDIAC ENZYME PROFILE	SGOT, LDH, CPK, CPK-MB, TROPONIN I
COAGULATION PROFILE	Platelet count, Prothrombin time, Activated Partial Thromboplastin time
COLLAGEN VASCULAR PROFILE	Serum protein electrophoresis, RA factor, Antibody to CCP, ANA, High sensitive CRP, ESR, ANCA
D I C PROFILE	Platelet count, Prothrombin time, Activated Partial Thromboplastin time, Fibrinogen levels, D-Dimer
DIABETIC PROFILE –	Standard Fasting & Post-prandial Blood Sugar, HbA1c (Glycosylated hemoglobin), 24 hour urine for microalbumin
FERTILITY PROFILE – MALE	FSH, LH, Prolactin, Testosterone Anti Sperm antibody
FERTILITY PROFILE – FEMALE	FSH, LH, Prolactin, Estradiol, Progesterone, Anti Sperm antibody
HEPATITIS B PROFILE	HbsAg, HbeAg, Anti HB e antibody, Anti HB c antibody
HYPERTENSION PROFILE – STANDARD	Electrolytes, BUN, Creatinine, Lipid profile (including Apolipoproteins A & B)
HYPERTENSION PROFILE – COMPREHENSIVE	Electrolytes, BUN, Creatinine, Lipid profile (including Apolipoproteins A & B), Cortisol, T4, 24 hour urine for VMA and Metanephrines
LEUKEMIA PROFILE – BASIC	To differentiate between myeloid and lymphoid leukemia
LIVER AUTOANTIBODY PROFILE	SGPT, ANA, Anti-smooth muscle antibody, Antibody to AMA-M2, LKM-1, SLA/LP, High Sensitive CRP
METABOLIC PROFILE	Alkaline phosphatase, Blood Urea, Uric Acid, SGOT, SGPT, Serum proteins, Calcium (total + ionic), Phosphorus, Electrolytes, Fasting blood sugar, Lipid Profile (standard)
MYELOMA PROFILE	Calcium (total & ionic), Phosphorus, Alkaline phosphatase, Urine Bence Jones Protein by electrophoresis, Immunofixation electrophoresis on serum and urine, Serum & urine light chain quantitation, Serum Beta 2 microglobulin
RENAL PROFILE – STANDARD	Blood Urea, Creainine, Random blood sugar, Electrolytes, Uric acid
RENAL PROFILE – EXTENDED	Blood Urea, Creatinine, Random blood sugar, Electrolytes, Uric acid, 24 hour urine protein & creatinine with ratio & creatinine clearance, Cystatin C, Hemoglobin
THYROID AUTO-IMMUNE PROFILE	TSH, Anti Thyroid peroxidase antibody, Anti Thyroid microsomal and thyroglobulin antibody
VIRAL HEPATITIS PROFILE	HbsAg, Hepatitis A virus antibody (IgM), Hepatitis C virus antibody (IgG), Hepatitis E virus antibody (IgM)
THYROID PROFILE – STANDARD	T3, T4, TSH
THYROID PROFILE – EXTENDED	T3, T4, TSH, Free T3, Free T4
LIPID PROFILE – STANDARD	Total cholesterol, Triglycerides, HDL, LDL, VLDL, Ratios
LIPID PROFILE – COMPREHENSIVE	Standard lipid profile + Apolipoprotein A & B
LIPID PROFILE – EXTENDED	Standard lipid profile + Apolipoprotein A & B, High sensitive CRP,Lp(a)
LIVER PROFILE – STANDARD	Total Cholesterol, Total protein with AG ratio, Bilirubin with fractions, Alkaline phosphatase, Gamma GT, SGOT, SGPT
LIVER PROFILE – EXTENDED	Total Cholesterol, Total protein with AG ratio, Bilirubin with fractions, Alkaline phosphatase, Gamma GT, SGOT, SGPT + Serum protein electrophoresis, Prothrombin time
GASTRO INTESTINAL IMMUNOLOGICAL DISEASE PROFILE:	Antibody to Gliadin, tissue Transglutamase, Saccharomyces cervisiae, Parietal cell, Intrinsic factor
MYOSITIS PROFILE	Mi2, Ku, Pm-Scl 100, Pm-Scl 75, Jo-1, SRP, PL-7, PL-12, EJ, OJ, Ro-52

## Preventive health packages

Name of package	Tests included
BASIC HEALTH CHECK UP	1. Complete Blood Count with ESR
	2. Blood Group & Rh Factor
	3. Random Blood Sugar
	4. Serum Cholesterol
	5. SGOT & SGPT
	6. Creatinine
	7. Routine Urine Examination
	8. ECG & Chest X-Ray
	9. Physician Consultation
GENERAL HEALTH CHECK UP	1. Fasting blood sugar, post prandial sugar
	2. Lipid Profile – Total Cholesterol, HDL,LDL, &VLDL,Triglycerides,Cholesterol:HDL Ratio, HDL:LDL Ratio
	3. Liver Function Tests –Bilirubin,Proteins,SGOT,SGPT,Alkaline Phosphatase.
	4. Kidney Function Test-Blood Urea,Uric Acid, Serum Creatinine, Electrolytes.
	5. Complete Blood Count with ESR.
	6. Blood group &Rh Factor
	7. Calcium
	8. Thyroid Function Test (T3,T4,TSH)
	9. Urine Routine
	10. ECG & Chest X-Ray
	11. Physician Consultation
	12. Mammogram – (Optional)
COMPREHENSIVE CARDIAC PROFILE	1. Serum Cholesterol
	2. Triglycerides
	3. HDL,LDL,VLDL
	4. HDL:LDL Ratio
	5. Cholesterol:LDL Ratio
	6. Apo lipoprotein A & B
	7. High Sensitivity CRP
	8. Lp(a)
	9. Fibrinogen
	10. Homocystine
	11. ECG
	12. ECHO or TMT
	13. Cardiologist Consultation
DIABETIC HEALTH CHECK UP	1. Fasting blood sugar, post prandial sugar
	2. Lipid Profile – Total Cholesterol, HDL,LDL & VLDL Cholesterol,Triglycerides, Cholesterol:HDL Ratio, HDL:LDL Ratio
	3. Electrolytes
	4. HbA1c (Glycosylated Haemoglobin)
	5. Random Urine Microalbumin creatinine ratio
	6. Cystatin C
	7. Creatinine
	8. ECG
	9. Physician Consultation
	10. Dietician Consultation
	11. Ophthalmic Consultation

Name of package	Tests included
EXECUTIVE / MASTER HEALTH CHECK UP	1. Fasting & Post Prandial Blood Sugar
	2. Lipid Profile- Total Cholesterol, HDL,LDL&VLDL, Triglycerides, Cholesterol:HDL Ratio, HDL:LDL Ratio,LP(a) Cholesterol,Apo Lipoprotein A, Apo Lipoprotein B, HS-CRP
	3. HbA1C (Glycosylated Haemoglobin)
	4. Liver Function Test - Prothrombin time, Bilirubin,
	5. Kidney Function Test, Urea, Creatinine, Uric Acid,Electrolytes
	6. Haemogram
	7. Stool Routine
	8. Urine Routine
	9. Blood Group & Rh Factor
	10. Thyroid Function Test –T3,T4,TSH
	11. Prostatic Specific Antigen –PSA (Only For Men)
	12. ECG
	13. PFT
	14. Abdomen &Pelvic Ultrasonogram
	15. Echo Cardiogram or Tread Mill Test
	16. Chest X-Ray ( Digital )
	17. PAP Smear (For Women Only)
	18. Physician Checkup
	19. Dietician Consultation
	20. Dental Checkup
	21. Eye Check Up
	22. Audiometry
	23. Mamaogram (For women) ( Optional )
SENIOR CITIZEN HEALTH CHECK UP	1. Fasting blood sugar, post prandial sugar
	2. Lipid Profile – Total Cholesterol, HDL,LDL &VLDL,Triglycerides,Cholesterol:HDL Ratio, HDL:LDL Ratio
	3. Liver Function Test (With Prothrombin Time) -Bilirubin,Proteins, SGOT,SGPT, GGT, Alkaline Phoshatase. Cholesterol.
	4. HbA1c (Glycosylated Haemoglobin)
	5. Haemogram
	6. Urine Routine
	7. Stool Complete
	8. Blood Group & Rh Factor
	9. Prostatic Specific Antigen –PSA (Only For Men)
	10. Kidney Function Test – Blood Urea, Uric Acid, Serum Creatinine & Electrolytes
	11. ECG
	12. Abdomen & Pelvic Ultrasonogram
	13. Echo Cardiogram or Tread Mill Test
	14. Chest X-Ray (Digital)
	15. PAP Smear (For Women Only)
	16. Physician Check Up
	17. Dietician Consultation
	18. Eye Checkup
	19. Audiometry
	20. Mammogram for women (Optional)

<b>Name of package</b>	<b>Tests included</b>
WELL WOMAN CHECK UP	1. Fasting blood sugar
	2. Complete Haemogram
	3. Cholesterol, Triglycerides
	4. SGOT,SGPT, Total Protein
	5. Urea, Creatinine, Total Protein
	6. TSH
	7. Routine Urine Examination
	8. PAP Smear
	9. Mammogram
	10. ECG
	11. Bone Densitometry
	12. Abdomen & Pelvic Ultrasound scan
PRE-MARITAL HEALTH CHECK UP	1. Fasting Blood Sugar
	2. Complete Blood Count
	3. Blood Grouping & Rh Typing
	4. Creatinine
	5. SGOT & SGPT
	6. VDRL
	7. HIV I & II
	8. HbsAg
	9. TFT ( T3,T4, TSH )
	10. Semen Analysis (For MEN only)
	11. Urine Routine
	12. ECG
13. Physician Consultation	
PEDIATRIC HEALTH CHECK UP (BELOW THE AGE OF 12)	1. Blood Group and Rh Typing
	2. Mantoux Test
	3. RBC, Hb%, TC, DC & ESR
	4. Chest X-Ray ( Digital )
	5. Urine Routine
	6. Stool Routine
	7. Eye
	8. Dental
OBESITY PROFILE	1. Blood sugar – Fasting
	2. Extended Lipid profile
	3. FSH, LH, Prolactin
	4. T3, T4, TSH
	5. Testosterone, Free Androgen index
	6. Insulin (fasting)
	7. Estradiol
	8. DHEA Sulfate