

PATIENT NAME : VISHAL CHAUDHARI

REF. DOCTOR : SELF

CODE/NAME & ADDRESS :C000138394
ACROFEMI HEALTHCARE LTD (MEDIWHEEL)
F-703, F-703, LADO SARAI, MEHRAULISOUTH- WEST
DELHI
NEW DELHI 110030
8800465156

ACCESSION NO : 0181WE000688
PATIENT ID : VISHM170883181
CLIENT PATIENT ID:
ABHA NO :

AGE/SEX :39 Years Male
DRAWN :
RECEIVED : 19/05/2023 08:15:27
REPORTED :22/05/2023 15:27:21

Test Report Status	Final	Results	Biological Reference Interval	Units
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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

XRAY-CHEST

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO NEGATIVE

ECG

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY

RELEVANT PRESENT HISTORY NOT SIGNIFICANT

RELEVANT PAST HISTORY covid in 2021.HOSPITALIZED FOR ISOLATION.

RELEVANT PERSONAL HISTORY MARRIED / MIXED DIET / NO ALLERGIES / NO SMOKING / ALCOHOL.

RELEVANT FAMILY HISTORY HIGH BLOOD PRESSURE : BOTH PARENTS.

HISTORY OF MEDICATIONS NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.78 mts

WEIGHT IN KGS. 73 Kgs

BMI 23 **BMI & Weight Status as follows**

Below 18.5: Underweight

18.5 - 24.9: Normal

25.0 - 29.9: Overweight

30.0 and Above: Obese

GENERAL EXAMINATION

MENTAL / EMOTIONAL STATE NORMAL

PHYSICAL ATTITUDE NORMAL

GENERAL APPEARANCE / NUTRITIONAL STATUS HEALTHY

BUILT / SKELETAL FRAMEWORK AVERAGE

FACIAL APPEARANCE NORMAL

SKIN NORMAL

UPPER LIMB NORMAL

LOWER LIMB NORMAL

NECK NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER



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MAHARASHTRA, INDIA
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Email : customercare.thane@srl.in



Patient Ref. No. 775000003271161

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THYROID GLAND	NOT ENLARGED
CAROTID PULSATION	NORMAL
TEMPERATURE	NORMAL
PULSE	78/MIN.REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID BRUIT
RESPIRATORY RATE	NORMAL
CARDIOVASCULAR SYSTEM	
BP	140/90 MM HG mm/Hg (SUPINE)
PERICARDIUM	NORMAL
APEX BEAT	NORMAL
HEART SOUNDS	NORMAL
MURMURS	ABSENT
RESPIRATORY SYSTEM	
SIZE AND SHAPE OF CHEST	NORMAL
MOVEMENTS OF CHEST	SYMMETRICAL
BREATH SOUNDS INTENSITY	NORMAL
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)
ADDED SOUNDS	ABSENT
PER ABDOMEN	
APPEARANCE	NORMAL
VENOUS PROMINENCE	ABSENT
LIVER	NOT PALPABLE
SPLEEN	NOT PALPABLE
HERNIA	ABSENT
CENTRAL NERVOUS SYSTEM	
HIGHER FUNCTIONS	NORMAL
CRANIAL NERVES	NORMAL
CEREBELLAR FUNCTIONS	NORMAL
SENSORY SYSTEM	NORMAL
MOTOR SYSTEM	NORMAL
REFLEXES	NORMAL
MUSCULOSKELETAL SYSTEM	

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SPINE	NORMAL
JOINTS	NORMAL
BASIC EYE EXAMINATION	
CONJUNCTIVA	NORMAL
EYELIDS	NORMAL
EYE MOVEMENTS	NORMAL
CORNEA	NORMAL
DISTANT VISION RIGHT EYE WITHOUT GLASSES	REDUCED VISUAL ACUITY 6/9
DISTANT VISION LEFT EYE WITHOUT GLASSES	REDUCED VISUAL ACUITY 6/9
DISTANT VISION RIGHT EYE WITH GLASSES	WITH GLASSES NORMAL
DISTANT VISION LEFT EYE WITH GLASSES	WITH GLASSES NORMAL
NEAR VISION RIGHT EYE WITHOUT GLASSES	WITHIN NORMAL LIMIT
NEAR VISION LEFT EYE WITHOUT GLASSES	WITHIN NORMAL LIMIT
NEAR VISION RIGHT EYE WITH GLASSES	WITHIN NORMAL LIMIT
NEAR VISION LEFT EYE WITH GLASSES	WITHIN NORMAL LIMIT
COLOUR VISION	NORMAL
SUMMARY	
RELEVANT HISTORY	NOT SIGNIFICANT
RELEVANT GP EXAMINATION FINDINGS	NOT SIGNIFICANT
REMARKS / RECOMMENDATIONS	BP MONITORING FOR 5 DAYS. IF PERSISTENTLY HIGH, WILL REQUIRE EVALUATION BY PHYSICIAN.BP MONITORING AND FOLLOW UP. ADD YOGA, PRANAYAM MEDITATION TO DAILY ROUTINE. LOW SALT DIET.



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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

GRADE I FATTY LIVER

Interpretation(s)

MEDICAL

HISTORY-*****
THIS REPORT CARRIES THE SIGNATURE OF OUR LABORATORY DIRECTOR. THIS IS AN INVOLABLE FEATURE OF OUR LAB MANAGEMENT SOFTWARE. HOWEVER, ALL EXAMINATIONS AND INVESTIGATIONS HAVE BEEN CONDUCTED BY OUR PANEL OF DOCTORS.

****End Of Report****

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HAEMATOLOGY - CBC

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BLOOD COUNTS, EDTA WHOLE BLOOD

HEMOGLOBIN (HB)	13.3	13.0 - 17.0	g/dL
METHOD : SLS- HEMOGLOBIN DETECTION METHOD			
RED BLOOD CELL (RBC) COUNT	5.22	4.5 - 5.5	mil/ μ L
METHOD : HYDRODYNAMIC FOCUSING BY DC DETECTION			
WHITE BLOOD CELL (WBC) COUNT	5.67	4.0 - 10.0	thou/ μ L
METHOD : FLUORESCENCE FLOW CYTOMETRY			
PLATELET COUNT	294	150 - 410	thou/ μ L
METHOD : HYDRODYNAMIC FOCUSING BY DC DETECTION			
RBC AND PLATELET INDICES			
HEMATOCRIT (PCV)	43.3	40.0 - 50.0	%
METHOD : CUMULATIVE PULSE HEIGHT DETECTION METHOD			
MEAN CORPUSCULAR VOLUME (MCV)	83.0	83.0 - 101.0	fL
METHOD : CALCULATED FROM RBC & HCT			
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	25.5 Low	27.0 - 32.0	pg
METHOD : CALCULATED FROM THE RBC & HGB			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	30.7 Low	31.5 - 34.5	g/dL
METHOD : CALCULATED FROM THE HGB & HCT			
RED CELL DISTRIBUTION WIDTH (RDW)	13.2	11.6 - 14.0	%
METHOD : CALCULATED FROM RBC SIZE DISTRIBUTION CURVE			
MENTZER INDEX	15.9		
MEAN PLATELET VOLUME (MPV)	9.8	6.8 - 10.9	fL
METHOD : CALCULATED FROM PLATELET COUNT & PLATELET HEMATOCRIT			
WBC DIFFERENTIAL COUNT			
NEUTROPHILS	52	40 - 80	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING			
LYMPHOCYTES	38	20 - 40	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING			
MONOCYTES	5	2 - 10	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING			
EOSINOPHILS	5	1 - 6	%
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING			
ABSOLUTE NEUTROPHIL COUNT	2.95	2.0 - 7.0	thou/ μ L
METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING			
ABSOLUTE LYMPHOCYTE COUNT	2.15	1.0 - 3.0	thou/ μ L

Dr. (Mrs) Neelu K Bhojani
 Lab Head

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METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING

ABSOLUTE MONOCYTE COUNT 0.28 0.2 - 1.0 thou/ μ L

METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING

ABSOLUTE EOSINOPHIL COUNT 0.28 0.02 - 0.50 thou/ μ L

METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING

NEUTROPHIL LYMPHOCYTE RATIO (NLR) 1.4

MORPHOLOGY

RBC NORMOCYTIC NORMOCHROMIC

WBC NORMAL MORPHOLOGY

METHOD : MICROSCOPIC EXAMINATION

PLATELETS ADEQUATE

Interpretation(s)

BLOOD COUNTS,EDTA WHOLE BLOOD-The cell morphology is well preserved for 24hrs. However after 24-48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.
RBC AND PLATELET INDICES-Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(> 13) from Beta thalassaemia trait (<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.
WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.
(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504
This ratio element is a calculated parameter and out of NABL scope.

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HAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD

E.S.R 12 0 - 14 mm at 1 hr

METHOD : WESTERGRENN METHOD

Interpretation(s)

ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE BLOOD-TEST DESCRIPTION :-

Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automatic instruments are available to measure ESR.

ESR is not diagnostic; it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change.

TEST INTERPRETATION

Increase in: Infections, Vasculitides, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.

Finding a very accelerated ESR(> 100 mm/hour) in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis).

In pregnancy BRI in first trimester is 0-48 mm/hr(62 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.

Decreased in: Polycythemia vera, Sickle cell anemia

LIMITATIONS

False elevated ESR : Increasec fibrinogen, Drugs(Vitam in A, Dextran etc) , Hypercholesterolemia

False Decreased : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine, salicylates)

REFERENCE :

1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition;2. Paediatric reference intervals. AACCPress, 7th edition. Edited by S. Soldin; 3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th edition.

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IMMUNOHAEMATOLOGY

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP

TYPE B

METHOD : GEL COLUMN AGGLUTINATION METHOD.

RH TYPE

POSITIVE

METHOD : GEL COLUMN AGGLUTINATION METHOD.

Interpretation(s)

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD-

Blood group is identified by antigens and antibodies present in the blood. Antigens are protein molecules found on the surface of red blood cells. Antibodies are found in plasma. To determine blood group, red cells are mixed with different antibody solutions to give A,B,O or AB.

Disclaimer: "Please note, as the results of previous ABO and Rh group (Blood Group) for pregnant women are not available, please check with the patient records for availability of the same."

The test is performed by both forward as well as reverse grouping methods.

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BIOCHEMISTRY

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GLUCOSE FASTING,FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR) 90 Normal 75 - 99 mg/dL
Pre-diabetics: 100 - 125
Diabetic: > or = 126

METHOD : ENZYMATIC REFERENCE METHOD WITH HEXOKINASE
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE
BLOOD

HBA1C 5.2 Non-diabetic Adult < 5.7 %
Pre-diabetes 5.7 - 6.4
Diabetes diagnosis: > or = 6.5
Therapeutic goals: < 7.0
Action suggested : > 8.0
(ADA Guideline 2021)

METHOD : HPLC
ESTIMATED AVERAGE GLUCOSE(EAG) 102.5 < 116.0 mg/dL

METHOD : CALCULATED PARAMETER
GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR) 75 70 - 139 mg/dL

METHOD : ENZYMATIC REFERENCE METHOD WITH HEXOKINASE
LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL 172 Desirable : < 200 mg/dL
Borderline : 200 - 239
High : > / = 240

METHOD : ENZYMATIC COLORIMETRIC ASSAY
TRIGLYCERIDES 101 Normal: < 150 mg/dL
Borderline high: 150 - 199
High: 200 - 499
Very High: >/= 500

METHOD : ENZYMATIC COLORIMETRIC ASSAY
HDL CHOLESTEROL 52 At Risk: < 40 mg/dL
Desirable: > or = 60

METHOD : ENZYMATIC, COLORIMETRIC

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Consultant Pathologist

Dr. Priyal Chinchkhede
Consultant Pathologist

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CHOLESTEROL LDL 100 mg/dL
 Adult levels:
 Optimal < 100
 Near optimal/above optimal:
 100-129
 Borderline high : 130-159
 High : 160-189
 Very high : = 190

METHOD : ENZYMATIC COLORIMETRIC ASSAY

NON HDL CHOLESTEROL 120 mg/dL
 Desirable : < 130
 Above Desirable : 130 -159
 Borderline High : 160 - 189
 High : 190 - 219
 Very high : > / = 220

VERY LOW DENSITY LIPOPROTEIN CHOL/HDL RATIO 20.2 mg/dL
 < OR = 30.0

LDL/HDL RATIO 3.3
 Low Risk : 3.3 - 4.4
 Average Risk : 4.5 - 7.0
 Moderate Risk : 7.1 - 11.0
 High Risk : > 11.0

LDL/HDL RATIO 1.9
 0.5 - 3.0 Desirable/Low Risk
 3.1 - 6.0 Borderline/Moderate Risk
 >6.0 High Risk

Interpretation(s)

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL 0.37 mg/dL
 Upto 1.2

METHOD : COLORIMETRIC DIAZO

BILIRUBIN, DIRECT 0.24 mg/dL
 < 0.30

BILIRUBIN, INDIRECT 0.13 mg/dL
 0.1 - 1.0

TOTAL PROTEIN 7.3 g/dL
 6.0 - 8.0

METHOD : COLORIMETRIC

ALBUMIN 4.7 g/dL
 3.97 - 4.94

METHOD : COLORIMETRIC

GLOBULIN 2.6 g/dL
 2.0 - 3.5

ALBUMIN/GLOBULIN RATIO 1.8 RATIO
 1.0 - 2.1

ASPARTATE AMINOTRANSFERASE(AST/SGOT) 18 U/L
 < OR = 50

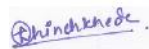
METHOD : UV ABSORBANCE

ALANINE AMINOTRANSFERASE (ALT/SGPT) 14 U/L
 < OR = 50

METHOD : UV ABSORBANCE



Dr. Ushma Wartikar
Consultant Pathologist



Dr. Priyal Chinchkhede
Consultant Pathologist



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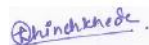
ALKALINE PHOSPHATASE METHOD : COLORIMETRIC	86.6	40 - 129	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD : ENZYMATIC, COLORIMETRIC	12	0 - 60	U/L
LACTATE DEHYDROGENASE METHOD : UV ABSORBANCE	176	125 - 220	U/L
BLOOD UREA NITROGEN (BUN), SERUM			
BLOOD UREA NITROGEN METHOD : ENZYMATIC ASSAY	13	6 - 20	mg/dL
CREATININE, SERUM			
CREATININE METHOD : COLORIMETRIC	0.94	0.7 - 1.2	mg/dL
BUN/CREAT RATIO			
BUN/CREAT RATIO	13.83	8.0 - 15.0	
URIC ACID, SERUM			
URIC ACID METHOD : ENZYMATIC COLORIMETRIC ASSAY	5.4	3.4 - 7.0	mg/dL
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN METHOD : COLORIMETRIC	7.3	6.0 - 8.0	g/dL
ALBUMIN, SERUM			
ALBUMIN METHOD : COLORIMETRIC	4.7	3.97 - 4.94	g/dL
GLOBULIN			
GLOBULIN	2.6	2.0 - 3.5	g/dL
ELECTROLYTES (NA/K/CL), SERUM			
SODIUM, SERUM	139	136 - 145	mmol/L
POTASSIUM, SERUM	4.26	3.5 - 5.1	mmol/L
CHLORIDE, SERUM	104	98 - 107	mmol/L

Interpretation(s)

Sodium	Potassium	Chloride
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<p>Decreased in:CCF,cirrhosis, vomiting, diarrhea, excessive sweating, salt-losing nephropathy,adrenal insufficiency, nephrotic syndrome, water intoxication, SIADH. Drugs: thiazides, diuretics, ACE inhibitors, chlorpropamide, carbamazepine, anti depressants (SSRI), anti psychotics.</p>	<p>Decreased in: Low potassium intake,prolonged vomiting or diarrhea, RTA types I and II, hyperaldosteronism, Cushing's syndrome,osmotic diuresis (e.g., hyperglycemia),alkalosis, familial periodic paralysis,trauma (transient).Drugs: Adrenergic agents, diuretics.</p>	<p>Decreased in: Vomiting, diarrhea, renal failure combined with salt deprivation, over-treatment with diuretics, chronic respiratory acidosis, diabetic ketoacidosis, excessive sweating, SIADH, salt-losing nephropathy, porphyria, expansion of extracellular fluid volume, adrenalinsufficiency, hyperaldosteronism,metabolic alkalosis. Drugs: chronic laxative,corticosteroids, diuretics.</p>
<p>Increased in: Dehydration (excessivesweating, severe vomiting or diarrhea),diabetes mellitus, diabetesinsipidus, hyperaldosteronism, inadequate water intake. Drugs: steroids, licorice,oral contraceptives.</p>	<p>Increased in: Massive hemolysis, severe tissue damage, rhabdomyolysis, acidosis, dehydration,renal failure, Addison' s disease, RTA type IV, hyperkalemic familial periodic paralysis. Drugs: potassium salts, potassium sparing diuretics,NSAIDs, beta-blockers, ACE inhibitors, high-dose trimethoprim-sulfamethoxazole.</p>	<p>Increased in: Renal failure, nephrotic syndrome, RTA,dehydration, overtreatment with saline,hyperparathyroidism, diabetes insipidus, metabolic acidosis from diarrhea (Loss of HCO₃-), respiratory alkalosis,hyperadrenocorticism. Drugs: acetazolamide,androgens, hydrochlorothiazide,salicylates.</p>
<p>Interferences: Severe lipemia or hyperproteinemi, if sodium analysis involves a dilution step can cause spurious results. The serum sodium falls about 1.6 mEq/L for each 100 mg/dL increase in blood glucose.</p>	<p>Interferences: Hemolysis of sample, delayed separation of serum, prolonged fist clenching during blood drawing, and prolonged tourniquet placement. Very high WBC/PLT counts may cause spurious. Plasma potassium levels are normal.</p>	<p>Interferences: Test is helpful in assessing normal and increased anion gap metabolic acidosis and in distinguishing hypercalcemia due to hyperparathyroidism (high serum chloride) from that due to malignancy (Normal serum chloride)</p>

Interpretation(s)

GLUCOSE FASTING,FLUORIDE PLASMA-TEST DESCRIPTION

Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and so that no glucose is excreted in the urine.

Increased in: Diabetes mellitus, Cushing's syndrome (10 – 15%), chronic pancreatitis (30%). Drugs: corticosteroids, phenytoin, estrogen, thiazides.

Decreased in : Pancreatic islet cell disease with increased insulin, insulinoma, adrenocortical insufficiency, hypopituitarism, diffuse liver disease, malignancy (adrenocortical, stomach, fibrosarcoma), infant of a diabetic mother, enzyme deficiency diseases (e.g. galactosemia), Drugs-insulin, ethanol, propranolol, sulfonylureas, tolbutamide, and other oral hypoglycemic agents.

NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within individuals. Thus, glycosylated hemoglobin (HbA1c) levels are favored to monitor glycaemic control.

High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glycosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-Used For:

1. Evaluating the long-term control of blood glucose concentrations in diabetic patients.
2. Diagnosing diabetes.

3. Identifying patients at increased risk for diabetes (prediabetes).

The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patient's metabolic control has remained continuously within the target range.

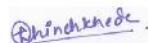
1. eAG (Estimated average glucose) converts percentage HbA1c to mg/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :

1. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss, hemolytic anemia) will falsely lower HbA1c test results. Fructosamine is recommended in these patients which indicates diabetes control over 15 days.
2. Vitamin C & E are reported to falsely lower test results. (possibly by inhibiting glycation of hemoglobin).



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3. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addition are reported to interfere with some assay methods, falsely increasing results.
4. Interference of hemoglobinopathies in HbA1c estimation is seen in

a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
b) Heterozygous state detected (D10 is correct for HbS & HbC trait).
c) HbF > 25% on alternate platform (Boronate affinity chromatography) is recommended for testing of HbA1c. Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy
GLUCOSE, POST-PRANDIAL, PLASMA-High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glycosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increase insulin response & sensitivity etc. Additional test HbA1c LIVER FUNCTION PROFILE, SERUM-

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice. **Elevated levels** results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease. Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors & Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver, liver cancer, kidney failure, hemolytic anemia, pancreatitis, hemochromatosis. AST levels may also increase after a heart attack or strenuous activity. ALT test measures the amount of this enzyme in the blood. ALT is found mainly in the liver, but also in smaller amounts in the kidneys, heart, muscles, and pancreas. It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health. AST levels increase during acute hepatitis, sometimes due to a viral infection, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis.

ALP is a protein found in almost all body tissues. Tissues with higher amounts of ALP include the liver, bile ducts and bone. Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilsons disease.

GGT is an enzyme found in cell membranes of many tissues mainly in the liver, kidney and pancreas. It is also found in other tissues including intestine, spleen, heart, brain and seminal vesicles. The highest concentration is in the kidney, but the liver is considered the source of normal enzyme activity. Serum GGT has been widely used as an index of liver dysfunction. Elevated serum GGT activity can be found in diseases of the liver, biliary system and pancreas. Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption and use of enzyme-inducing drugs etc.

Total Protein also known as total protein, is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin. Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstroms disease. Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

Albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc

BLOOD UREA NITROGEN (BUN), SERUM-Causes of Increased levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)

Causes of decreased level include Liver disease, SIADH. CREATININE, SERUM-Higher than normal level may be due to:

- Blockage in the urinary tract, Kidney problems, such as kidney damage or failure, infection, or reduced blood flow, Loss of body fluid (dehydration), Muscle problems, such as breakdown of muscle fibers, Problems during pregnancy, such as seizures (eclampsia), or high blood pressure caused by pregnancy (preeclampsia)

Lower than normal level may be due to: Myasthenia Gravis, Muscuopathy URIC ACID, SERUM-Causes of Increased levels:-Dietary (High Protein Intake, Prolonged Fasting, Rapid weight loss), Gout, Lesch nyhan syndrome, Type 2 DM, Metabolic syndrome **Causes of decreased levels**-Low Zinc intake, OCP, Multiple Sclerosis

TOTAL PROTEIN, SERUM-is a biochemical test for measuring the total amount of protein in serum. Protein in the plasma is made up of albumin and globulin.

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstroms disease.

Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

ALBUMIN, SERUM-

Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver. Albumin constitutes about half of the blood serum protein. **Low blood albumin levels (hypoalbuminemia) can be caused by:** Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc.

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CLINICAL PATH - URINALYSIS

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

PHYSICAL EXAMINATION, URINE

COLOR PALE YELLOW
APPEARANCE CLEAR

CHEMICAL EXAMINATION, URINE

PH 6.0 5.00 - 7.50
SPECIFIC GRAVITY 1.025 1.010 - 1.030

METHOD : URINE ROUTINE & MICROSCOPY EXAMINATION BY INTEGRATED AUTOMATED SYSTEM

PROTEIN NOT DETECTED NOT DETECTED
GLUCOSE NOT DETECTED NOT DETECTED
KETONES NOT DETECTED NOT DETECTED
BLOOD NOT DETECTED NOT DETECTED
UROBILINOGEN NORMAL NORMAL
NITRITE NOT DETECTED NOT DETECTED
LEUKOCYTE ESTERASE NOT DETECTED NOT DETECTED

MICROSCOPIC EXAMINATION, URINE

RED BLOOD CELLS NOT DETECTED NOT DETECTED /HPF
PUS CELL (WBC'S) 2-3 0-5 /HPF
EPITHELIAL CELLS 1-2 0-5 /HPF
CASTS NOT DETECTED
CRYSTALS NOT DETECTED
BACTERIA NOT DETECTED NOT DETECTED
YEAST NOT DETECTED NOT DETECTED

METHOD : URINE ROUTINE & MICROSCOPY EXAMINATION BY INTEGRATED AUTOMATED SYSTEM

Interpretation(s)

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CLINICAL PATH - STOOL ANALYSIS

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

PHYSICAL EXAMINATION,STOOL

COLOUR

BROWN

METHOD : VISUAL

CONSISTENCY

WELL FORMED

METHOD : VISUAL

MUCUS

NOT DETECTED

NOT DETECTED

METHOD : VISUAL

VISIBLE BLOOD

ABSENT

ABSENT

METHOD : VISUAL

CHEMICAL EXAMINATION,STOOL

STOOL PH

6.0

METHOD : USING PH PAPER

OCCULT BLOOD

NOT DETECTED

NOT DETECTED

METHOD : HEMOSPOT

MICROSCOPIC EXAMINATION,STOOL

PUS CELLS

1-2

/hpf

RED BLOOD CELLS

NOT DETECTED

NOT DETECTED

/HPF

METHOD : MICROSCOPIC EXAMINATION

CYSTS

NOT DETECTED

NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

OVA

NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

LARVAE

NOT DETECTED

NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

TROPHOZOITES

NOT DETECTED

NOT DETECTED

METHOD : MICROSCOPIC EXAMINATION

FAT

ABSENT

VEGETABLE CELLS

PRESENT

CONCENTRATION METHOD

NO OVA & CYST SEEN AFTER PERFORMING CONCENTRATION
TECHNIQUE FOR STOOL SAMPLE.

Interpretation(s)

Sheetal

Dr. Sheetal Sawant
Consultant Microbiologist

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SPECIALISED CHEMISTRY - HORMONE

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

THYROID PANEL, SERUM

T3 METHOD : ELECTROCHEMILUMINESCENCE	127.0	80 - 200	ng/dL
T4 METHOD : ELECTROCHEMILUMINESCENCE	7.22	5.1 - 14.1	µg/dL
TSH (ULTRASENSITIVE) METHOD : ELECTROCHEMILUMINESCENCE	3.290	0.27 - 4.2	µIU/mL

Interpretation(s)

Triiodothyronine T3, **Thyroxine T4**, and **Thyroid Stimulating Hormone TSH** are thyroid hormones which affect almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate. Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH. Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hyperthyroidism, TSH levels are low. Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3. Measurement of the serum TT3 level is a more sensitive test for the diagnosis of hyperthyroidism, and measurement of TT4 is more useful in the diagnosis of hypothyroidism. Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the circulating hormone is free and biologically active. It is advisable to detect Free T3, Free T4 along with TSH, instead of testing for albumin bound Total T3, Total T4.

Sr. No.	TSH	Total T4	FT4	Total T3	Possible Conditions
1	High	Low	Low	Low	(1) Primary Hypothyroidism (2) Chronic autoimmune Thyroiditis (3) Post Thyroidectomy (4) Post Radio-Iodine treatment
2	High	Normal	Normal	Normal	(1) Subclinical Hypothyroidism (2) Patient with insufficient thyroid hormone replacement therapy (3) In cases of Autoimmune/Hashimoto thyroiditis (4). Isolated increase in TSH levels can be due to Subclinical inflammation, drugs like amphetamines, Iodine containing drug and dopamine antagonist e.g. domperidone and other physiological reasons.
3	Normal/Low	Low	Low	Low	(1) Secondary and Tertiary Hypothyroidism
4	Low	High	High	High	(1) Primary Hyperthyroidism (Graves Disease) (2) Multinodular Goitre (3) Toxic Nodular Goitre (4) Thyroiditis (5) Over treatment of thyroid hormone (6) Drug effect e.g. Glucocorticoids, dopamine, T4 replacement therapy (7) First trimester of Pregnancy
5	Low	Normal	Normal	Normal	(1) Subclinical Hyperthyroidism
6	High	High	High	High	(1) TSH secreting pituitary adenoma (2) TRH secreting tumor
7	Low	Low	Low	Low	(1) Central Hypothyroidism (2) Euthyroid sick syndrome (3) Recent treatment for Hyperthyroidism

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8	Normal/Low	Normal	Normal	High	(1) T3 thyrotoxicosis (2) Non-Thyroidal illness
9	Low	High	High	Normal	(1) T4 Ingestion (2) Thyroiditis (3) Interfering Anti TPO antibodies

REF: 1. TIETZ Fundamentals of Clinical chemistry 2. Guidelines of the American Thyroid association during pregnancy and Postpartum, 2011.
NOTE: It is advisable to detect Free T3, Free T4 along with TSH, instead of testing for albumin bound Total T3, Total T4. TSH is not affected by variation in thyroid - binding protein. TSH has a diurnal rhythm, with peaks at 2:00 - 4:00 a.m. And troughs at 5:00 - 6:00 p.m. With ultradian variations.

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