



Patient Ref. No. 775000001926028

CLIENT CODE : C000138364

## CLIENT'S NAME AND ADDRESS :

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
F-703, LADO SARAI, MEHRAULI  
SOUTH WEST DELHI  
NEW DELHI 110030  
DELHI INDIA  
8800465156

SRL LTD

GRAND MALL, OPPOSITE SBI ZONAL OFFICE, SM ROAD, AMBAWADI,  
AHMEDABAD, 380015  
GUJRAT, INDIA  
Tel : 079-48912999, 079-48913999, 079-48914999  
Email : customercare.ahmedabad@srl.in

PATIENT NAME : KAVITA KALPESH GANDHI

PATIENT ID : KAVIF030266321

ACCESSION NO : 0321VK002818 AGE : 56 Years SEX : Female

ABHA NO :

DRAWN :

RECEIVED : 26/11/2022 09:53:11

REPORTED : 28/11/2022 18:30:11

REFERRING DOCTOR : SELF

CLIENT PATIENT ID :

Test Report Status	Final	Results	Biological Reference Interval	Units
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**MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE****BLOOD COUNTS, EDTA WHOLE BLOOD**

HEMOGLOBIN (HB)	12.2	12.0 - 15.0	g/dL
RED BLOOD CELL (RBC) COUNT	4.65	3.8 - 4.8	mil/ $\mu$ L
WHITE BLOOD CELL (WBC) COUNT	9.37	4.0 - 10.0	thou/ $\mu$ L
PLATELET COUNT	348	150 - 410	thou/ $\mu$ L

**RBC AND PLATELET INDICES**

HEMATOCRIT (PCV)	38.5	36.0 - 46.0	%
MEAN CORPUSCULAR VOLUME (MCV)	<b>82.7</b>	<b>Low</b> 83.0 - 101.0	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	<b>26.2</b>	<b>Low</b> 27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	31.6	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	<b>15.3</b>	<b>High</b> 11.6 - 14.0	%
MENTZER INDEX	17.8		
MEAN PLATELET VOLUME (MPV)	8.8	6.8 - 10.9	fL

**WBC DIFFERENTIAL COUNT**

NEUTROPHILS	67	40 - 80	%
LYMPHOCYTES	24	20 - 40	%
MONOCYTES	5	2.0 - 10.0	%
EOSINOPHILS	3	1.0 - 6.0	%
BASOPHILS	1	0 - 1	%
ABSOLUTE NEUTROPHIL COUNT	6.28	2.0 - 7.0	thou/ $\mu$ L
ABSOLUTE LYMPHOCYTE COUNT	2.25	1.0 - 3.0	thou/ $\mu$ L
ABSOLUTE MONOCYTE COUNT	0.47	0.2 - 1.0	thou/ $\mu$ L
ABSOLUTE EOSINOPHIL COUNT	0.28	0.02 - 0.50	thou/ $\mu$ L
ABSOLUTE BASOPHIL COUNT	0.09	0.02 - 0.10	thou/ $\mu$ L
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	2.8		

**MORPHOLOGY**

RBC NORMOCYTIC NORMOCHROMIC

WBC NORMAL MORPHOLOGY

PLATELETS ADEQUATE

REMARKS NO PREMATURE CELLS ARE SEEN. MALARIAL PARASITE NOT DETECTED



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## ERYTHROCYTE SEDIMENTATION RATE (ESR), WHOLE BLOOD

E.S.R	25	High	0 - 20	mm at 1 hr
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## GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C	5.8	High	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
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ESTIMATED AVERAGE GLUCOSE(EAG)

119.8

High

&lt; 116.0

mg/dL

## GLUCOSE FASTING, FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR)

112

High

74 - 99

mg/dL

## GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR)

121

70 - 140

mg/dL

## LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL

203

High

Desirable: < 200  
Borderline High: 200 - 239  
High: > or = 240

mg/dL

TRIGLYCERIDES

111

Desirable: < 150  
Borderline High: 150 - 199  
High: 200 - 499  
Very High: > or = 500

mg/dL

HDL CHOLESTEROL

45

< 40 Low  
> or = 60 High

mg/dL

CHOLESTEROL LDL

136

High

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

mg/dL

NON HDL CHOLESTEROL

158

High

Desirable: Less than 130  
Above Desirable: 130 - 159  
Borderline High: 160 - 189  
High: 190 - 219  
Very high: > or = 220

mg/dL

CHOL/HDL RATIO

4.5

LDL/HDL RATIO

3.0

0.5 - 3.0 Desirable/Low Risk  
3.1 - 6.0 Borderline/Moderate Risk  
>6.0 High Risk

VERY LOW DENSITY LIPOPROTEIN

22.2

mg/dL



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## LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL	0.52	Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.19	Upto 0.2	mg/dL
BILIRUBIN, INDIRECT	0.33	0.00 - 1.00	mg/dL
TOTAL PROTEIN	7.1	6.4 - 8.3	g/dL
ALBUMIN	4.4	3.5 - 5.2	g/dL
GLOBULIN	2.7	2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO	1.6	1.0 - 2.0	RATIO
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	13	0 - 32	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT)	15	0 - 33	U/L
ALKALINE PHOSPHATASE	102	35 - 104	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT)	14	5 - 36	U/L
LACTATE DEHYDROGENASE	168	135 - 214	U/L

## BLOOD UREA NITROGEN (BUN), SERUM

BLOOD UREA NITROGEN	10	6 - 20	mg/dL
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## CREATININE, SERUM

CREATININE	0.66	0.60 - 1.10	mg/dL
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## BUN/CREAT RATIO

BUN/CREAT RATIO	<b>15.15</b>	<b>High</b> 5.0 - 15.0	
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## URIC ACID, SERUM

URIC ACID	<b>6.2</b>	<b>High</b> 2.4 - 5.7	mg/dL
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## ELECTROLYTES (NA/K/CL), SERUM

SODIUM, SERUM	142.5	136- 145	mmol/L
POTASSIUM, SERUM	4.76	3.50- 5.10	mmol/L
CHLORIDE, SERUM	104.7	98 - 107	mmol/L

## Interpretation(s)

## PHYSICAL EXAMINATION, URINE

COLOR	Yellow
APPEARANCE	Clear

## CHEMICAL EXAMINATION, URINE

PH	5.5	4.7 - 7.5
SPECIFIC GRAVITY	<=1.005	1.003 - 1.035



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PROTEIN		NOT DETECTED	NOT DETECTED	
GLUCOSE		NOT DETECTED	NOT DETECTED	
KETONES		NOT DETECTED	NOT DETECTED	
BLOOD		NOT DETECTED	NOT DETECTED	
BILIRUBIN		NOT DETECTED	NOT DETECTED	
UROBILINOGEN		NORMAL	NORMAL	
NITRITE		NOT DETECTED	NOT DETECTED	
LEUKOCYTE ESTERASE		NOT DETECTED	NOT DETECTED	
<b>MICROSCOPIC EXAMINATION, URINE</b>				
RED BLOOD CELLS		NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S)		1-2	0-5	/HPF
EPITHELIAL CELLS		2-3	0-5	/HPF
CASTS		NOT DETECTED		
CRYSTALS		NOT DETECTED		
BACTERIA		NOT DETECTED	NOT DETECTED	
YEAST		NOT DETECTED	NOT DETECTED	
REMARKS		MICROSCOPIC EXAMINATION OF URINE IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.		
<b>Interpretation(s)</b>				
<b>THYROID PANEL, SERUM</b>				
T3		105.90	80.00 - 200.00	ng/dL
T4		7.15	5.10 - 14.10	µg/dL
TSH (ULTRASENSITIVE)		<b>4.650</b>	<b>High</b> 0.270 - 4.200	µIU/mL



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**DIAGNOSTIC REPORT**



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**PATIENT NAME : KAVITA KALPESH GANDHI** PATIENT ID : **KAVIF030266321**

ACCESSION NO : **0321VK002818** AGE : 56 Years SEX : Female ABHA NO :

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**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, FreeT4 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
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, FreeT4 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.

**PAPANICOLAOU SMEAR**

TEST METHOD	CONVENTIONAL GYNEC CYTOLOGY
SPECIMEN TYPE	TWO UNSTAINED CERVICAL SMEARS RECEIVED
REPORTING SYSTEM	2014 BETHESDA SYSTEM FOR REPORTING CERVICAL CYTOLOGY
SPECIMEN ADEQUACY	SMEARS ARE SATISFACTORY FOR EVALUATION.



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MICROSCOPY	SMEARS SHOW PREDOMINANTLY INTERMEDIATE AND FEW PARABASAL SQUAMOUS CELLS AGAINST MILD ACUTE INFLAMMATORY BACKGROUND. ENDOCERVICAL CELLS ARE NOT SEEN ON SMEARS. NO EVIDENCE OF DYSPLASIA OR MALIGNANT CELLS SEEN.
INTERPRETATION / RESULT	NEGATIVE FOR INTRAEPITHELIAL LESION OR MALIGNANCY

**Comments**

PAP SMEAR IS ASCRENING PROCEDURE FOR CERVICAL CANCER WITH INHERENT FALSE NEGATIVE RESULTS HENCE RESULTS SHOULD BE INTERPRETED WITH CAUTION

**STOOL: OVA & PARASITE**

COLOUR	BROWN		
CONSISTENCY	WELL FORMED		
ODOUR	FAECAL		
MUCUS	ABSENT	NOT DETECTED	
VISIBLE BLOOD	ABSENT	ABSENT	
POLYMPHONUCLEAR LEUKOCYTES	NOT DETECTED	0 - 5	/HPF
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
MACROPHAGES	NOT DETECTED	NOT DETECTED	
CHARCOT-LEYDEN CRYSTALS	NOT DETECTED	NOT DETECTED	
TROPHOZOITES	NOT DETECTED	NOT DETECTED	
CYSTS	NOT DETECTED	NOT DETECTED	
OVA	NOT DETECTED		
LARVAE	NOT DETECTED	NOT DETECTED	
ADULT PARASITE	NOT DETECTED		
OCCULT BLOOD	NOT DETECTED	NOT DETECTED	

**Interpretation(s)**

**ABO GROUP & RH TYPE, EDTA WHOLE BLOOD**

ABO GROUP    TYPE B  
 RH TYPE    POSITIVE

**XRAY-CHEST**

IMPRESSION    NO ABNORMALITY DETECTED

**TMT OR ECHO**

TMT OR ECHO    TMT:- NORMAL



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**ECG**

ECG NORMAL SINUS RHYTHM

**MEDICAL HISTORY**

RELEVANT PRESENT HISTORY NOT SIGNIFICANT  
 RELEVANT PAST HISTORY NOT SIGNIFICANT  
 RELEVANT PERSONAL HISTORY NOT SIGNIFICANT  
 RELEVANT FAMILY HISTORY HYPERTENSION;  
 HEART DISEASE  
 OCCUPATIONAL HISTORY NOT SIGNIFICANT  
 HISTORY OF MEDICATIONS NOT SIGNIFICANT

**ANTHROPOMETRIC DATA & BMI**

HEIGHT IN METERS 1.63 mts  
 WEIGHT IN KGS. 91.5 Kgs  
 BMI 34  
 BMI & Weight Status as follows: kg/sqmts  
 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 OBESE  
 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  
 THYROID GLAND NOT ENLARGED  
 TEMPERATURE NORMAL  
 PULSE 94/MIN  
 RESPIRATORY RATE NORMAL

**CARDIOVASCULAR SYSTEM**



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BP		120/70 MM HG (SITTING)		mm/Hg
PERICARDIUM		NORMAL		
APEX BEAT		NORMAL		
HEART SOUNDS		S1, S2 HEARD NORMALLY		
MURMURS		ABSENT		
<b>RESPIRATORY SYSTEM</b>				
SIZE AND SHAPE OF CHEST		NORMAL		
MOVEMENTS OF CHEST		SYMMETRICAL		
BREATH SOUNDS INTENSITY		NORMAL		
BREATH SOUNDS QUALITY		VESICULAR (NORMAL)		
ADDED SOUNDS		ABSENT		
<b>PER ABDOMEN</b>				
APPEARANCE		NORMAL		
LIVER		NOT PALPABLE		
SPLEEN		NOT PALPABLE		
<b>CENTRAL NERVOUS SYSTEM</b>				
HIGHER FUNCTIONS		NORMAL		
CRANIAL NERVES		NORMAL		
CEREBELLAR FUNCTIONS		NORMAL		
SENSORY SYSTEM		NORMAL		
MOTOR SYSTEM		NORMAL		
REFLEXES		NORMAL		
<b>MUSCULOSKELETAL SYSTEM</b>				
SPINE		NORMAL		
JOINTS		NORMAL		
<b>BASIC EYE EXAMINATION</b>				
DISTANT VISION RIGHT EYE WITH GLASSES		6/9		
DISTANT VISION LEFT EYE WITH GLASSES		6/12		
NEAR VISION RIGHT EYE WITHOUT GLASSES		N/12		
NEAR VISION LEFT EYE WITHOUT GLASSES		N/12		
COLOUR VISION		NORMAL		

## SUMMARY



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RELEVANT HISTORY

NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS

NOT SIGNIFICANT

RELEVANT LAB INVESTIGATIONS

FBS:- HIGH

HBA1C:- PRE-DIABETIC, MEAN PLASMA GLUCOSE:- HIGH

S.CHOLESTEROL:- HIGH, LDL:- HIGH

URIC ACID:- HIGH

TSH:- HIGH

RELEVANT NON PATHOLOGY DIAGNOSTICS

USG ABDOMEN:- FATTY LIVER

REMARKS / RECOMMENDATIONS

1) FBS:- HIGH, HBA1C:- PRE-DIABETIC, MEAN PLASMA GLUCOSE:- HIGH

ADV:- REDUCE INTAKE OF SWEET, SUGAR, STARCH IN DIET, REGULAR PHYSICAL EXERCISE, REPEAT FBS, PPBS AND HBA1C AND DIABETOLOGIST OPINION SOS

2) S.CHOLESTEROL:- HIGH, LDL:- HIGH

ADV:- LOW FAT DIET, REGULAR PHYSICAL EXERCISE

3) URIC ACID:- HIGH

ADV:- PHYSICIAN OPINION

4) TSH:- HIGH

ADV:- ENDOCRINOLOGIST OPINION

## Comments

OUR PANEL DOCTORS FOR NON-PATHOLOGY TESTS:-

CHECK UP DONE BY:- DR. NAMRATA AGRAWAL (M.B.B.S)

REPORT REVIEWED BY:- DR. PRIYANK KAPADIYA (M.B.B.S DNB MEDICINE)

RADIOLOGIST:- DR. KALPANA MODI (M.D.RADIOLOGY) // DR. SAHIL N SHAH (M.D.RADIOLOGY)



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Patient Ref. No. 775000001926028

CLIENT CODE : C000138364

## CLIENT'S NAME AND ADDRESS :

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )  
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GUJRAT, INDIA  
Tel : 079-48912999, 079-48913999, 079-48914999  
Email : customercare.ahmedabad@srl.in

PATIENT NAME : KAVITA KALPESH GANDHI

PATIENT ID : KAVIF030266321

ACCESSION NO : 0321VK002818 AGE : 56 Years SEX : Female ABHA NO :

DRAWN : RECEIVED : 26/11/2022 09:53:11 REPORTED : 28/11/2022 18:30:11

REFERRING DOCTOR : SELF

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**MEDI WHEEL FULL BODY HEALTH CHECKUP ABOVE 40FEMALE****ULTRASOUND ABDOMEN****ULTRASOUND ABDOMEN****FATTY LIVER****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.)

**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 automated 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, Vasculitis, 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 : Increased fibrinogen, Drugs (Vitamin A, Dextran etc), Hypercholesterolemia

**False Decreased** : Poikilocytosis, (Sickle Cells, 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. AACC Press, 7th edition. Edited by S. Soldin; 3. The reference for the adult reference range is "Practical Haematology by Dacie and Lewis, 10th edition.

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 :**

I. 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.

II. Vitamin C & E are reported to falsely lower test results. (possibly by inhibiting glycation of hemoglobin).

III. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uremia, hyperbilirubinemia, chronic alcoholism, chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods, falsely increasing results.



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IV. 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 corrected 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 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; sulfonyleureas, tolbutamide, and other oral hypoglycemic agents.

**NOTE:**  
 Hypoglycemia is defined as a glucose of < 50 mg/dL in men and < 40 mg/dL in women.  
 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 glycemic 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.

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, Increased insulin response & sensitivity etc. Additional test HbA1c  
 LIVER FUNCTION PROFILE, SERUM-  
 LIVER FUNCTION PROFILE

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 result 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, Paget's disease, Rickets, Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia, Malnutrition, Protein deficiency, Wilson's 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. Serum 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, Waldenstrom's disease. Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc. 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

**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
- Muscular dystrophy

**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



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**Causes of decreased levels**-Low Zinc intake,OCP,Multiple Sclerosis

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.

MEDICAL

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

\*\*\*\*\*

**\*\*End Of Report\*\***

Please visit [www.srlworld.com](http://www.srlworld.com) for related Test Information for this accession

**Dr.Sahil .N.Shah**  
 Consultant Radiologist

**Dr.Priyank Kapadia**  
 Physician

**Dr Kalpana Modi**  
 Radiologist

**Dr.Miral Gajera**  
 Consultant Pathologist

**CONDITIONS OF LABORATORY TESTING & REPORTING**

1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
4. A requested test might not be performed if:
  - i. Specimen received is insufficient or inappropriate
  - ii. Specimen quality is unsatisfactory
  - iii. Incorrect specimen type
  - iv. Discrepancy between identification on specimen container label and test requisition form
5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
8. Test results cannot be used for Medico legal purposes.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

**SRL Limited**

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