



CLIENT CODE: C000138379 **CLIENT'S NAME AND ADDRESS:**

ACROFEMI HEALTHCARE LTD (MEDIWHEEL)

F-703, LADO SARAI, MEHRAULI SOUTH WEST DELHI

NEW DELHI 110030 DELHI INDIA 8800465156

PLOT No. 88, ROAD No. 15, MIDC ESTATE, ANDHERI (EAST)

MUMBAI, 400093

MAHARASHTRA, INDIA

Tel: 09152729959/9111591115, Fax: CIN - U74899PB1995PLC045956

PATIENT NAME: AMIT KUMAR TIWARI PATIENT ID: AMITM12087165

ACCESSION NO: 0065VL000913 AGE: 51 Years SEX: Male ABHA NO:

RECEIVED: 10/12/2022 07:57 12/12/2022 14:18 DRAWN: REPORTED:

REFERRING DOCTOR: SELF CLIENT PATIENT ID:

Test Report Status Results **Biological Reference Interval Units** <u>Final</u>

MEDI WHEEL FULL BODY HEALTH CHECK UP ABOVE 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	14.3		13.0 - 17.0	g/dL
METHOD: PHOTOMETRIC MEASUREMENT				
RED BLOOD CELL (RBC) COUNT	5.01		4.5 - 5.5	mil/μL
METHOD : COULTER PRINCIPLE				
WHITE BLOOD CELL (WBC) COUNT	4.80		4.0 - 10.0	thou/µL
METHOD : COULTER PRINCIPLE				
PLATELET COUNT	189		150 - 410	thou/µL
METHOD : ELECTRONIC IMPEDENCE & MICROSCOPY				
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	41.7		40.0 - 50.0	%
METHOD : CALCULATED PARAMETER				
MEAN CORPUSCULAR VOLUME (MCV)	83.1		83.0 - 101.0	fL
METHOD : DERIVED PARAMETER FROM RBC HISTOGRAM				
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	28.5		27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD: CALCULATED PARAMETER	34.3		31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	13.2		11.6 - 14.0	%
METHOD: DERIVED PARAMETER FROM RBC HISTOGRAM				
MENTZER INDEX	16.6			
MEAN PLATELET VOLUME (MPV)	10.9		6.8 - 10.9	fL
METHOD: DERIVED PARAMETER FROM PLATELET HISTOGRAM				
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	47		40 - 80	%
METHOD: VCSN TECHNOLOGY/ MICROSCOPY				
LYMPHOCYTES	35		20 - 40	%
METHOD: VCSN TECHNOLOGY/ MICROSCOPY				
MONOCYTES	13	High	2.0 - 10.0	%
METHOD: VCSN TECHNOLOGY/ MICROSCOPY				
EOSINOPHILS	4		1.0 - 6.0	%
METHOD: VCSN TECHNOLOGY/ MICROSCOPY				
BASOPHILS	1		0 - 1	%
METHOD: VCSN TECHNOLOGY/ MICROSCOPY				
ABSOLUTE NEUTROPHIL COUNT	2.26		2.0 - 7.0	thou/µL









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ACCESSION NO: 0065VL000913 AGE: 51 Years SEX: Male ABHA NO:

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CLIENT PATIENT ID: **REFERRING DOCTOR: SELF**

Test Report Status	<u>Final</u>	Results		Biological Reference Interva	l Units
METIOD CALCULATED DAD					
METHOD : CALCULATED PAR		1.60		10.30	*h/1
ABSOLUTE LYMPHOCYT		1.68		1.0 - 3.0	thou/µL
METHOD : CALCULATED PAR		0.63		0.2 1.0	thou/ul
ABSOLUTE MONOCYTE METHOD: CALCULATED PAR		0.62		0.2 - 1.0	thou/µL
ABSOLUTE EOSINOPHI		0.19		0.02 - 0.50	thou/µL
METHOD : CALCULATED PAR		0.19		0.02 - 0.30	tilou/μΕ
ABSOLUTE BASOPHIL (0.05		0.02 - 0.10	thou/µL
METHOD : CALCULATED PAR		0.03		0.02 0.10	τιου/ μΕ
NEUTROPHIL LYMPHOC		1.3			
METHOD : CALCULATED	STIE TOTALO (MERC)	1.5			
ERYTHROCYTE SEDII	MENTATION RATE (ESR).WHOLE			
BLOOD	(
E.S.R		8		0 - 14	mm at 1 hr
METHOD : AUTOMATED (PHO	DTOMETRICAL CAPILLARY STO	OPPED FLOW KINETIC ANALYSIS)			
GLYCOSYLATED HEM BLOOD	IOGLOBIN(HBA1C),	EDTA WHOLE			
НВА1С		9.1	High	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 : ION- EXCHANGE					
ESTIMATED AVERAGE	` ,	214.5	High	< 116.0	mg/dL
METHOD : CALCULATED PAR					
GLUCOSE FASTING,F					
FBS (FASTING BLOOD	SUGAR)	196	High	Normal <100 Impaired fasting glucose:100 to 125 Diabetes mellitus: > = 126 (on more than 1 occassion) (ADA guidelines 2021)	
METHOD: SPECTROPHOTOM	IETRY HEXOKINASE			,	
GLUCOSE, POST-PRA	NDIAL, PLASMA				
PPBS(POST PRANDIAL	BLOOD SUGAR)	288	High	Normal <140 Impaired glucose tolerance:140 to 199 Diabetes mellitus: > = 200 (on more than 1 occassion)	mg/dL

METHOD: SPECTROPHOTOMETRY HEXOKINASE

LIPID PROFILE, SERUM



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ADA guideline 2021





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CHOLESTEROL, TOTAL	HETDY ENZYMATIC COLODIN	206		Desirable : < 200 Borderline : 200 - 239 High : > / = 240	mg/dL
TRIGLYCERIDES		METRIC - CHOLETSEROL OXIDASE, ES 204		Normal: < 150 Borderline high: 150 - 199 High: 200 - 499 Very High: >/= 500	mg/dL
METHOD: SPECTROPHOTOM	IETRY, ENZYMATIC ENDPOI				
HDL CHOLESTEROL		40		At Risk: < 40 Desirable: > or = 60	mg/dL
CHOLESTEROL LDL		125	High	Optimal: < 100 Near optimal/above optimal: 129 Borderline high: 130-159 High: 160-189 Very high: = 190	mg/dL 100-
METHOD : CALCULATED PAR NON HDL CHOLESTERC METHOD : CALCULATED PAR	DL	166	High	Desirable : < 130 Above Desirable : 130 -159 Borderline High : 160 - 189 High : 190 - 219 Very high : > / = 220	mg/dL
CHOL/HDL RATIO		5.2	High	Low Risk: 3.3 - 4.4 Average Risk: 4.5 - 7.0 Moderate Risk: 7.1 - 11.0 High Risk: > 11.0	
METHOD : CALCULATED PAR	AMETER	3.4	High	Desirable/Low Risk: 0.5 - 3.0 Borderline/Moderate Risk: 3.3 6.0 High Risk: > 6.0	
METHOD : CALCULATED PAR VERY LOW DENSITY LI		41.0	High	< or = 30.0	mg/dL
METHOD : CALCULATED PAR	RAMETER				
LIVER FUNCTION PR	OFILE, SERUM				
BILIRUBIN, TOTAL METHOD: SPECTROPHOTOM	IETDY COLODIMETRIC -DI/	0.52		Upto 1.2	mg/dL
BILIRUBIN, DIRECT		0.19		0.0 - 0.2	mg/dL
METHOD: SPECTROPHOTOM BILIRUBIN, INDIRECT	·	ff - diazotization 0.33		0.1 - 1.0	mg/dL
METHOD : CALCULATED PAR TOTAL PROTEIN	MITE IEK	7.0		6.0 - 8.0	g/dL









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METHOD - CDECTROPHOTOM	IETDY COLODIMETRIC BILIDET	Γ, REAGENT BLANK, SERUM BLANK		
ALBUMIN	iciki, colokimetkic -bioket	4.3	3.97 - 4.94	g/dL
	IETRY, BROMOCRESOL GREEN(3.37 4.34	g/uL
GLOBULIN	iemi, enerio dileggi dileem	2.7	2.0 - 3.5	g/dL
METHOD : CALCULATED PAR	KAMETER	217	2.0 3.3	9, 42
ALBUMIN/GLOBULIN R		1.6	1.0 - 2.1	RATIO
METHOD : CALCULATED PAR				
ASPARTATE AMINOTRA		7) 25	Upto 40	U/L
	` '	HOSPHATE ACTIVATION(P5P) - IFC	•	-, -
ALANINE AMINOTRANS		34	Upto 41	U/L
	, ,	HOSPHATE ACTIVATION(P5P) - IFC	•	-,
ALKALINE PHOSPHATA		92	40 - 129	U/L
METHOD : SPECTROPHOTOM	IETRY, PNPP, AMP BUFFER - IFO	CC		,
GAMMA GLUTAMYL TRA	ANSFERASE (GGT)	25	< 60	U/L
METHOD : SPECTROPHOTOM	IETRY, ENZYMATIC COLORIMET	RIC - G-GLUTAMYL-CARBOXY-NITR	OANILIDE - IFCC	
LACTATE DEHYDROGEI	NASE	185	< 232	U/L
METHOD : SPECTROPHOTOM	IETRY, LACTATE TO PYRUVATE -	· UV-IFCC		
BLOOD UREA NITRO	GEN (BUN), SERUM			
BLOOD UREA NITROGE	EN	9	6 - 20	mg/dL
METHOD : SPECTROPHOTOM	IETRY, UREASE -COLORIMETRI	С		-
CREATININE, SERUM	1			
CREATININE		0.61	Low 0.90 - 1.30	mg/dL
METHOD : SPECTROPHOTOM	IETRY, JAFFE'S ALKALINE PICR	ATE KINETIC - RATE BLANKED - IFO	CC-IDMS STANDARIZED	5.
BUN/CREAT RATIO				
BUN/CREAT RATIO		14.75	8 - 15	
METHOD : CALCULATED PAR	RAMETER			
URIC ACID, SERUM				
URIC ACID		4.2	3.4 - 7.0	mg/dL
	IETRY, ENZYMATIC COLORIMET		311 716	mg/ ac
TOTAL PROTEIN, SEI	•			
TOTAL PROTEIN		7.0	6.0 - 8.0	g/dL
	IFTRY, COLORIMETRIC -BILIRET	γ.ο Γ, REAGENT BLANK, SERUM BLANK		g/ uL
ALBUMIN, SERUM	ienti, coeditriente bioner	, RENGENT BE WIN, SEROTI BE WIN		
ALBUMIN		4.3	3.97 - 4.94	a/dl
	IETRY, BROMOCRESOL GREEN(J.7/ - 4.74	g/dL
GLOBULIN	ILINI, DROPIOCRESOL GREEN	DCG) DIE DINDING		
		2.7	20 25	م/ط
GLOBULIN	AMETER	2.7	2.0 - 3.5	g/dL
METHOD : CALCULATED PAR	KAMETEK			



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ELECTROLYTES (NA)	/K/CL). SERUM				
SODIUM, SERUM	,,,,	136		136 - 145	mmol/L
METHOD : ISE INDIRECT				100 110	=
POTASSIUM, SERUM		4.40		3.5 - 5.1	mmol/L
METHOD : ISE INDIRECT					
CHLORIDE, SERUM		101		98 - 106	mmol/L
METHOD : ISE INDIRECT					
PHYSICAL EXAMINA	TION, URINE				
COLOR		PALE YELLOW			
APPEARANCE		CLEAR			
CHEMICAL EXAMINA	ATION, URINE				
PH		7.0		5.00 - 7.50	
SPECIFIC GRAVITY		1.005	Low	1.010 - 1.030	
PROTEIN		NOT DETECTED		NOT DETECTED	
GLUCOSE		DETECTED (TRACE))	NOT DETECTED	
KETONES		NOT DETECTED		NOT DETECTED	
BLOOD		NOT DETECTED		NOT DETECTED	
BILIRUBIN		NOT DETECTED		NOT DETECTED	
UROBILINOGEN		NOT DETECTED			
NITRITE		NOT DETECTED		NOT DETECTED	
LEUKOCYTE ESTERASE		NOT DETECTED		NOT DETECTED	
MICROSCOPIC EXAM	INATION, URINE				
RED BLOOD CELLS		NOT DETECTED		NOT DETECTED	/HPF
PUS CELL (WBC'S)		1-2		0-5	/HPF
EPITHELIAL CELLS		0-1		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 INTEG	GRATED AUTOMATED SYSTEM			
THYROID PANEL, SE	RUM				
T3		110.0		80.0 - 200.0	ng/dL
METHOD : COMPΕΤΙΤΊVE ELI	ECTROCHEMILUMINESCENCE IMMUNOAS	SSAY			
T4		7.67		5.10 - 14.10	μg/dL
METHOD : COMPΕΤΙΤΊVE ELI	ECTROCHEMILUMINESCENCE IMMUNOAS				
TSH (ULTRASENSITIVE	Ξ)	4.030		0.270 - 4.200	μIU/mL









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METHOD: SANDWICH ELECTROCHEMILUMINESCENCE IMMUNOASSAY

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 hyporthyroidism, TSH levels are low. owidctlparowidctlparBelow 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. Guidlines 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.

MICROSCOPIC EXAMINATION, STOOL

REMARK SAMPLE NOT RECEIVED

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP В

METHOD: HAEMAGGLUTINATION (AUTOMATED)

RH TYPE **POSITIVE**





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METHOD: HAEMAGGLUTINATION (AUTOMATED)

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 **DIABETES 4-5 MONTHS** RELEVANT PAST HISTORY RELEVANT PERSONAL HISTORY **NOT SIGNIFICANT**

RELEVANT FAMILY HISTORY **CANCER**

HISTORY OF MEDICATIONS **NOT SIGNIFICANT**

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.6 mts WEIGHT IN KGS. 75 Kgs

BMI 29 BMI & Weight Status as follows: kg/sgmts

> 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 **OVERWEIGHT BUILT / SKELETAL FRAMEWORK AVERAGE** FACIAL APPEARANCE NORMAL SKIN **NORMAL** UPPER LIMB NORMAL LOWER LIMB **NORMAL NFCK** NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

THYROID GLAND NOT ENLARGED CAROTID PULSATION **NORMAL TEMPERATURE NORMAL**

PULSE 98/MIN, REGULAR, ALL PERIPHERAL PULSES WELL FELT, NO CAROTID

BRUIT





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RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

 $\mathsf{BP} \hspace{1.5cm} \mathsf{110/80} \; \mathsf{MM} \; \mathsf{HG} \hspace{1.5cm} \mathsf{mm/Hg}$

(SUPINE)

PERICARDIUM NORMAL APEX BEAT NORMAL

HEART SOUNDS S1, S2 HEARD NORMALLY

MURMURS ABSENT

RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST

MOVEMENTS OF CHEST

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

SPINE NORMAL JOINTS NORMAL

BASIC EYE EXAMINATION

CONJUNCTIVA NORMAL EYELIDS NORMAL EYE MOVEMENTS NORMAL CORNEA NORMAL









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DISTANT VISION RIGHT EYE WITHOUT GLASSES WITHIN NORMAL LIMIT(6/6)
DISTANT VISION LEFT EYE WITHOUT GLASSES WITHIN NORMAL LIMIT(6/6)
NEAR VISION RIGHT EYE WITHOUT GLASSES REDUCE VISUAL ACUITY(N/8)
NEAR VISION LEFT EYE WITHOUT GLASSES REDUCE VISUAL ACUITY(N/8)

COLOUR VISION OUT OF 17 NUMBERED PLATES (17/17)

BASIC ENT EXAMINATION

EXTERNAL EAR CANAL NORMAL TYMPANIC MEMBRANE NORMAL

NOSE NO ABNORMALITY DETECTED

SINUSES CLEAR

THROAT NO ABNORMALITY DETECTED

TONSILS NOT ENLARGED

SUMMARY

RELEVANT HISTORY NOT SIGNIFICANT

RELEVANT GP EXAMINATION FINDINGS REDUCE VISUAL ACUITY NEAR VISION BOTH EYES WITHOUT GLASSES

(N/8)

OVER WEIGHT

RELEVANT LAB INVESTIGATIONS RAISED FASTING BLOOD SUGAR (196)

RAISED POST PRANDILA SUGAR (288)

RAISED MONOCYSTE (13)

URINE GLUCOSE DETECTED (TRACE RAISED TOTAL CHOLESTEROL (206) RAISED TRIGLYCERIDES (204) RAISED HDL CHOLESTEROL (166) RAISED LDL CHOLESTEROL (125)

RAISED VLDL CHOLESTEROL (41.0) RAISED HBA1C (9.1) RAISED EAG (214.5)

RELEVANT NON PATHOLOGY DIAGNOSTICS MILD FATTY LIVER SIMPLE HEPATIC CYST

REMARKS / RECOMMENDATIONS REGULAR PHYSICAL EXERCISES

LOW CALORIC DIET

REDUCE FATTY AND PROCESSED FOOD IN DIET

REDUCE SUGARS, SWEETS IN DIET

FOLLOW UP WITH PHYSICIAN FOR RECENT ONSET DIABETES.

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





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CLIENT CODE: C000138379

CLIENT'S NAME AND ADDRESS: ACROFEMI HEALTHCARE LTD (MEDIWHEEL)

F-703, LADO SARAI, MEHRAULI

SOUTH WEST DELHT **NEW DELHI 110030 DELHI INDIA** 8800465156

PLOT No. 88, ROAD No. 15, MIDC ESTATE, ANDHERI (EAST)

MUMBAI, 400093 MAHARASHTRA, INDIA

Tel: 09152729959/9111591115, Fax: CIN - U74899PB1995PLC045956

PATIENT NAME: AMIT KUMAR TIWARI PATIENT ID: AMITM12087165

ACCESSION NO: 0065VL000913 AGE: 51 Years SEX: Male ABHA NO:

DRAWN: RECEIVED: 10/12/2022 07:57 REPORTED: 12/12/2022 14:18

REFERRING DOCTOR: SFLF CLIENT PATIENT ID:

Test Report Status Results **Biological Reference Interval** Units <u>Final</u>

(<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, Vasculities, 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: Polycythermia vera, Sickle cell anemia

False elevated ESR: Increased fibrinogen, Drugs(Vitamin 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. 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.
- 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 patients metabolic control has remained continuously within the target range.

1.eAG (Estimated average glucose) converts percentage HbA1c to md/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.

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 paltform (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 sothat no glucose is excreted in the urine.

Increased in

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

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:

Hypoglycemia is defined as a glucoseof < 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 Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increased insulin response & sensitivity etc.





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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 Glyosuria, 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 results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, herinding) fundice). 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, is chemia 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'is 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

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

TOTAL PROTEIN, SERUM-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'''''''''''''' 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.

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

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









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Test Report Status Final Results Units

MEDI WHEEL FULL BODY HEALTH CHECK UP ABOVE 40 MALE

ULTRASOUND ABDOMEN

ULTRASOUND ABDOMEN

MILD FATTY LIVER.SIMPLE HEPATIC CYST.

End Of Report
Please visit www.srlworld.com for related Test Information for this accession

In.

Dr.Rajesh Nayak Consultant Radiologist

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

Fortis Hospital, Sector 62, Phase VIII, Mohali 160062





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