



CLIENT CODE: C000138354 **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

Shop CG 017, PALM SPRINGS PLAZA GURUGRAM, 122001

HARYANA, INDIA Tel: 9111591115

PATIENT NAME: RAJMANI GAUR PATIENT ID: FH.10921150

ACCESSION NO: 0282WA00072 AGE: 38 Years SEX: Male ABHA NO:

RECEIVED: 21/01/2023 09:37 23/01/2023 11:25 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 BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD			
HEMOGLOBIN (HB)	16.7	13.0 - 17.0	g/dL
METHOD: SPECTROPHOTOMETRY			
RED BLOOD CELL (RBC) COUNT	5.68	High 4.5 - 5.5	mil/μL
METHOD: IMPEDANCE			
WHITE BLOOD CELL (WBC) COUNT	5.93	4.0 - 10.0	thou/µL
METHOD: IMPEDANCE			
PLATELET COUNT	263	150 - 410	thou/µL
METHOD: IMPEDANCE			
RBC AND PLATELET INDICES			
HEMATOCRIT (PCV)	50.2	High 40 - 50	%
METHOD : CALCULATED			
MEAN CORPUSCULAR VOLUME (MCV)	88.3	83 - 101	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE			
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	29.4	27.0 - 32.0	pg
METHOD: CALCULATED PARAMETER			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC)	33.2	31.5 - 34.5	g/dL
METHOD : CALCULATED PARAMETER			
RED CELL DISTRIBUTION WIDTH (RDW)	15.6	High 11.6 - 14.0	%
METHOD: DERIVED FROM IMPEDANCE MEASURE			
MENTZER INDEX	15.6		
MEAN PLATELET VOLUME (MPV)	9.3	6.8 - 10.9	fL
METHOD: DERIVED FROM IMPEDANCE MEASURE			
WBC DIFFERENTIAL COUNT			
NEUTROPHILS	50	40 - 80	%
METHOD: DHSS FLOWCYTOMETRY			
LYMPHOCYTES	36	20 - 40	%
METHOD: DHSS FLOWCYTOMETRY			
MONOCYTES	10	2 - 10	%
METHOD: DHSS FLOWCYTOMETRY			
EOSINOPHILS	3	1 - 6	%
METHOD: DHSS FLOWCYTOMETRY			
BASOPHILS	1	0 - 2	%
METHOD: IMPEDANCE			

2.97

2.0 - 7.0



ABSOLUTE NEUTROPHIL COUNT

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thou/µL





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METHOD: DHSS FLOWCYTOMETRY, CALCULATED			
ABSOLUTE LYMPHOCYTE COUNT	2.14	1 - 3	thou/µL
METHOD: DHSS FLOWCYTOMETRY, CALCULATED	2.14	1 - 3	tilou/μL
ABSOLUTE MONOCYTE COUNT	0.59	0.20 - 1.00	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED	0.59	0.20 - 1.00	tilou/µL
ABSOLUTE EOSINOPHIL COUNT	0.20	0.02 - 0.50	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED	0.20	0.02 - 0.30	tilou/µL
ABSOLUTE BASOPHIL COUNT	0.03	0.02 - 0.10	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED	0.03	0.02 - 0.10	tilou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.4		
METHOD : CALCULATED	1.4		
ERYTHROCYTE SEDIMENTATION RATE (ES	SR),WHOLE		
BLOOD E.S.R	2	0 - 14	mm at 1 hr
METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STOPP	-	0 - 14	IIIIII at 1 III
GLUCOSE FASTING, FLUORIDE PLASMA	LD FLOW KINLIIC ANALISIS)		
·	00	N 175 00	/ 11
FBS (FASTING BLOOD SUGAR)	88	Normal 75 - 99 Pre-diabetics: 100 - 125 Diabetic: > or = 126	mg/dL
METHOD: SPECTROPHOTOMETRY HEXOKINASE		2.0300.0. 1 0. 220	
GLYCOSYLATED HEMOGLOBIN(HBA1C), EBLOOD	DTA WHOLE		
HBA1C	5.6	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 ADA Target: 7.0 Action suggested: > 8.0	%
METHOD: CAPILLARY ELECTROPHORESIS			
ESTIMATED AVERAGE GLUCOSE(EAG)	114.0	< 116	mg/dL
METHOD: CALCULATED PARAMETER			









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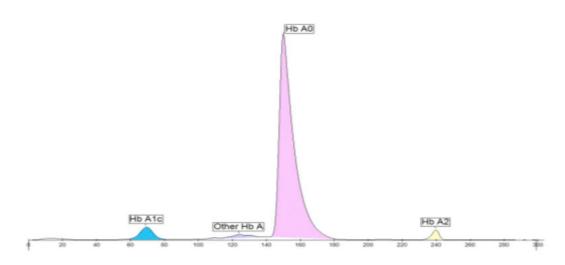
Test Report Status <u>Final</u> Results Biological Reference Interval Units

PLOT NO.31, ELECTRONIC CITY, SECTOR 18, GURUGRAM

ID: 28213177867

Name:

Sample Date: 1/21/2023 Sample num.: 156



A1c Haemoglobin Electrophoresis

Fractions	%	mmol/mol	Cal. %
Hb A1c	-	38	5.6
Other Hb A	2.2		
Hb A0	90.5		
Hb A2	2.2		

HbA1c % cal :5.6 %

Comments:

GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR) 134 70 - 139





mg/dL





mg/dL

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METHOD : SPECTROPHOTOMETRY, HEXOKINASE		
•		
LIPID PROFILE, SERUM		
CHOLESTEROL, TOTAL	217	High Desirable cholesterol level mg/dL < 200 Borderline high cholesterol 200 - 239 High cholesterol > / = 240
METHOD: ENZYMATIC COLORIMETRIC ASSAY		

Borderline high: 150 - 199

154

150 - 199 High: 200 - 499 Very High: >/= 500

High Normal: < 150

METHOD: ENZYMATIC COLORIMETRIC ASSAY

TRIGLYCERIDES

HDL CHOLESTEROL

34 Low Low HDL Cholesterol <40 mg/dL

High HDL Cholesterol >/= 60

METHOD: HOMOGENEOUS ENZYMATIC COLORIMETRIC ASSAY

CHOLESTEROL LDL 159 High Adult levels: mg/dL

Optimal < 100

Near optimal/above optimal: 100-

129

Borderline high: 130-159 High: 160-189 Very high: = 190

METHOD: HOMOGENEOUS ENZYMATIC COLORIMETRIC ASSAY

NON HDL CHOLESTEROL **184** High Desirable: < 130 mg/dL

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

METHOD: CALCULATED PARAMETER

VERY LOW DENSITY LIPOPROTEIN 31.0 High < OR = 30.0 mg/dL

 ${\tt METHOD}: {\tt CALCULATED} \; {\tt PARAMETER} \;$

CHOL/HDL RATIO **6.5 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 PARAMETER

LDL/HDL RATIO 4.7 High 0.5 - 3.0 Desirable/Low Risk

3.1 - 6.0 Borderline/Moderate Risk

>6.0 High Risk

METHOD: CALCULATED PARAMETER

Interpretation(s)

LIVER FUNCTION PROFILE, SERUM









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DILIDINI TOTAL		1.0		Unto 1.2	
BILIRUBIN, TOTAL METHOD: COLORIMETRIC D	JAZO METHOD	1.0		Upto 1.2	mg/dL
BILIRUBIN, DIRECT	0.4	High	< 0.30	mg/dL	
METHOD : COLORIMETRIC D	JAZO METHOD	0.4	g	< 0.50	mg/ac
BILIRUBIN, INDIRECT	IAZO MEMIOD	0.60		0.1 - 1.0	mg/dL
METHOD : CALCULATED PAR	ΔMETER	0.00		0.1 1.0	mg/uL
TOTAL PROTEIN	THE TEXT	7.6		6.0 - 8.0	g/dL
METHOD : SPECTROPHOTOM	ETRY, BIURET	7.0		0.0 0.0	9/ 42
ALBUMIN	zmi, sionzi	4.6		3.97 - 4.94	g/dL
	ETRY, BROMOCRESOL GREEN(BCG			3137 1131	9, 42
GLOBULIN		2.9		2.0 - 3.5	g/dL
METHOD : CALCULATED PAR	AMETER	2.13		2.0 3.3	9, 42
ALBUMIN/GLOBULIN R		1.6		1.0 - 2.1	RATIO
METHOD : CALCULATED PAR		2.0		2.0 2.1	
	NSFERASE (AST/SGOT)	22		< OR = 50	U/L
	ETRY, WITH PYRIDOXAL PHOSPHAT				-, -
ALANINE AMINOTRANS		39		< OR = 50	U/L
	ETRY, WITH PYRIDOXAL PHOSPHAT	E ACTIVATION-IFCC			,
ALKALINE PHOSPHATA	SE	130	High	40 - 129	U/L
METHOD : SPECTROPHOTOM	ETRY, PNPP, AMP BUFFER - IFCC				
GAMMA GLUTAMYL TRA	39		0 - 60	U/L	
METHOD : ENZYMATIC COLO	RIMETRIC ASSAY STANDARDIZED	AGAINST IFCC / SZASZ			
LACTATE DEHYDROGE	NASE	163		125 - 220	U/L
METHOD : SPECTROPHOTOM	ETRY, LACTATE TO PYRUVATE - UV-	IFCC			
BLOOD UREA NITRO	GEN (BUN), SERUM				
BLOOD UREA NITROGE	N	10.0		6 - 20	mg/dL
METHOD : SPECTROPHOTOM	ETRY, KINETIC TEST WITH UREASE	AND GLUTAMATE DEHYDROG	SENASE		
CREATININE, SERUM	I				
CREATININE		0.80		0.7 - 1.2	mg/dL
METHOD : SPECTROPHOTOM	ETRIC, JAFFE'S KINETICS				3,
BUN/CREAT RATIO					
BUN/CREAT RATIO		12.00		8.0 - 15.0	
METHOD : CALCULATED PAR	AMETER				
URIC ACID, SERUM					
URIC ACID		7.0		3.4 - 7.0	mg/dL
METHOD : SPECTROPHOTOM	ETRY, URICASE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
TOTAL PROTEIN, SEI					
TOTAL PROTEIN		7.6		6.0 - 8.0	g/dL
IOTAL INOTHIN		7.0		0.0 0.0	g/uL









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METHOD : SPECTROPHOTOMETI	RY, BIURET			
ALBUMIN, SERUM				
ALBUMIN		4.6	3.97 - 4.94	g/dL
METHOD: SPECTROPHOTOMETI	RY, BROMOCRESOL GREI	EN(BCG) - DYE BINDING		
GLOBULIN				
GLOBULIN		2.9	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAM	IETER			
ELECTROLYTES (NA/K	/CL), SERUM			
SODIUM, SERUM		140	136 - 145	mmol/L
METHOD : ISE INDIRECT				
POTASSIUM, SERUM		4.7	3.5 - 5.1	mmol/L
METHOD : ISE INDIRECT				
CHLORIDE, SERUM		103	98 - 107	mmol/L
METHOD : ISE INDIRECT				
Interpretation(s)				
PHYSICAL EXAMINATI	ON, URINE			
COLOR		PALE YELLOW		
APPEARANCE		CLEAR		

Comments

NOTE: MICROSCOPIC EXAMINATION OF URINE IS PERFORMED ON CENTRIFUGED URINARY SEDIMENT.

IN NORMAL URINE SAMPLES CAST AND CRYSTALS ARE NOT DETECTED.

CHEMICAL EXAMINATION, URINE

PH	6.0	4.7 - 7.5
SPECIFIC GRAVITY	<=1.005	1.003 - 1.035
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
MICROSCOPIC EXAMINATION, URINE		

NOT DETECTED

NOT DETECTED



RED BLOOD CELLS

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/HPF





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PUS CELL (WBC'S)	0-1	0-5	/HPF
EPITHELIAL CELLS	0-1	0-5	/HPF
CASTS	NOT DETECTED		
CRYSTALS	NOT DETECTED		
BACTERIA	NOT DETECTED	NOT DETECTED	
Interpretation(s)			
THYROID PANEL, SERUM			
Т3	131.0	80 - 200	ng/dL
METHOD: ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
T4	6.20	5.1 - 14.1	μg/dL
METHOD: ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			
TSH (ULTRASENSITIVE)	2.150	0.27 - 4.2	μIU/mL
METHOD: ELECTROCHEMILUMINESCENCE IMMUNO ASSAY			





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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. 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,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.

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP B

 ${\tt METHOD: HEMAGGLUTINATION\ REACTION\ ON\ SOLID\ PHASE}$

RH TYPE RH+

 ${\tt METHOD: HEMAGGLUTINATION\ REACTION\ ON\ SOLID\ PHASE}$

XRAY-CHEST

»»

BOTH THE LUNG FIELDS ARE CLEAR



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»» BOTH THE COSTOPHRENIC AND CARDIOPHRENIC ANGLES ARE CLEAR

»» BOTH THE HILA ARE NORMAL

»»CARDIAC AND AORTIC SHADOWS APPEAR NORMAL»»BOTH THE DOMES OF THE DIAPHRAGM ARE NORMAL

»» VISUALIZED BONY THORAX IS NORMAL

IMPRESSION NO ABNORMALITY DETECTED

TMT OR ECHO

TMT OR ECHO STRESS TEST IS NEGATIVE FOR RMI

ECG

ECG WITHIN NORMAL LIMITS

MEDICAL HISTORY

RELEVANT PRESENT HISTORY NOT SIGNIFICANT RELEVANT PAST HISTORY NOT SIGNIFICANT

RELEVANT PERSONAL HISTORY NON SMOKER, ALCOHOL SOCIALLY

RELEVANT FAMILY HISTORY HIGH BP - FATHER

OCCUPATIONAL HISTORY SERVICE

HISTORY OF MEDICATIONS NOT SIGNIFICANT

ANTHROPOMETRIC DATA & BMI

HEIGHT IN METERS 1.70 mts WEIGHT IN KGS. 83.9 Kgs

NORMAL

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 **OVERWEIGHT BUILT / SKELETAL FRAMEWORK AVFRAGE** FACIAL APPEARANCE **NORMAL** SKIN NORMAL UPPER LIMB **NORMAL** LOWER LIMB NORMAL

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER



NECK

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THYROID GLAND NOT ENLARGED

CAROTID PULSATION NORMAL TEMPERATURE NORMAL

PULSE 80 / MIN REGULAR, ALL PERIPHERAL PULSES WELL FELT

RESPIRATORY RATE NORMAL

CARDIOVASCULAR SYSTEM

BP 120/72 MMHG mm/Hg

(SUPINE) NORMAL NORMAL

HEART SOUNDS S1, S2 HEARD NORMALLY

MURMURS ABSENT

RESPIRATORY SYSTEM

SIZE AND SHAPE OF CHEST

MOVEMENTS OF CHEST

BREATH SOUNDS INTENSITY

NORMAL

NORMAL

BREATH SOUNDS QUALITY VESICULAR (NORMAL)

ADDED SOUNDS ABSENT

PER ABDOMEN

PERICARDIUM

APEX BEAT

APPEARANCE NORMAL VENOUS PROMINENCE ABSENT

LIVER NOT PALPABLE SPLEEN NOT PALPABLE

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

DISTANT VISION RIGHT EYE WITH GLASSES 6/6





2007-1-2008 2007-1-2008 2007-1-2008





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ACROFEMI HEALTHCARE LTD (MEDIWHEEL)

F-703, LADO SARAI, MEHRAULI

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

SRL Ltd

Shop CG 017, PALM SPRINGS PLAZA

GURUGRAM, 122001 HARYANA, INDIA Tel: 9111591115

PATIENT NAME: RAJMANI GAUR PATIENT ID: FH.10921150

0282WA00072 ACCESSION NO: AGE: 38 Years SEX: Male ABHA NO:

DRAWN: RECEIVED: 21/01/2023 09:37 REPORTED: 23/01/2023 11:25

REFERRING DOCTOR: SFLF CLIENT PATIENT ID:

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

DISTANT VISION LEFT EYE WITH GLASSES 6/6 NEAR VISION RIGHT EYE WITH GLASSES N/6 NEAR VISION LEFT EYE WITH GLASSES N/6 COLOUR VISION 17/17

SUMMARY

REMARKS / RECOMMENDATIONS

ADVISED

LIFESTYLE CHANGES

FOLLOW UP WITH PHYSICIAN

& EYE SPECIALIST.

REVIEW WITH ECG,USG REPORTS.

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 = 3.4 years old and NLR = 3.5 years old and NLR = 3.5 years old and NLR = 3.6 years old and NLR = 3.6 years old and NLR = 3.6 years old and NLR = 3.7 years old and NLR = 3.8 years old and 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

LIMITATIONS

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.

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.

Decreased in

Pancreatic islet cell disease with increased insulin,insulinoma, adrenocortical insufficiency, hypopituitarism, diffuse liver disease, malignancy (adrenocortical,









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stomach,fibrosarcoma), infant of a diabetic mother, enzyme deficiency diseases(e.g., galactosemia),Drugs- insulin,

ethanol, propranolol; sulfonylureas,tolbutamide, and other oral hypoglycemic agents.

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.

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 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, 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, 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 pancrease. 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

syndrome, Protein Floshig enteropathy etc. number source and about an it 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)



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Lower than normal level may be due to:

made up of albumin and globulin

· Mvasthenia 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

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

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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MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

ULTRASOUND ABDOMEN ULTRASOUND ABDOMEN

NO ABNORMALITIES DETECTED

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

Dr. Arpita Roy, MD

Pathologist

Dr. Anurag Bansal LAB DIRECTOR

Dr. Deblina Naithani **Consultant Physician**

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 gueries 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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