



SUBHM22049082

**CLIENT CODE:** C000138384 **CLIENT'S NAME AND ADDRESS:** 

ACROFEMI HEALTHCARE LTD ( MEDIWHEEL )

F-703, LADO SARAI, MEHRAULI SOUTH WEST DELHI

**NEW DELHI 110030** DELHI INDIA 8800465156

30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,

KOLKATA, 700016 WEST BENGAL, INDIA

Tel: 033-22267333,46019048, Fax: 033-22271324

CIN - U74899PB1995PLC045956

**PATIENT NAME: SUBHAJIT SAHA** PATIENT ID:

ACCESSION NO: **0082VK000229** AGE: 32 Years SEX: Male ABHA NO:

DRAWN: 08/11/2022 08:50 RECEIVED: 08/11/2022 09:11 09/11/2022 13:24 REPORTED:

REFERRING DOCTOR: DR. ACROFEMI HEALTHCARE LTD ( MEDIWHEEL ) CLIENT PATIENT ID:

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

## MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

PLOOD COUNTS EDTA WHOLE PLOOD						
BLOOD COUNTS,EDTA WHOLE BLOOD	15.0	13.0 - 17.0	g/dL			
HEMOGLOBIN (HB)  METHOD: SPECTROPHOTOMETRY	15.0	13.0 - 17.0	g/uL			
RED BLOOD CELL (RBC) COUNT	4.76	4.5 - 5.5	mil/µL			
METHOD : ELECTRICAL IMPEDANCE	4.70	4.5 5.5	IIIII/ μΕ			
WHITE BLOOD CELL (WBC) COUNT	5.49	4.0 - 10.0	thou/µL			
METHOD : ELECTRICAL IMPEDANCE	51.15	20.0	σα, μ=			
PLATELET COUNT	155	150 - 410	thou/µL			
METHOD: ELECTRONIC IMPEDENCE & MICROSCOPY			,,			
RBC AND PLATELET INDICES						
HEMATOCRIT (PCV)	44.5	40 - 50	%			
METHOD: CALCULATED						
MEAN CORPUSCULAR VOLUME (MCV)	93.5	83 - 101	fL			
METHOD: ELECTRICAL IMPEDANCE						
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	31.5	27.0 - 32.0	pg			
METHOD : CALCULATED						
MEAN CORPUSCULAR HEMOGLOBIN	33.7	31.5 - 34.5	g/dL			
CONCENTRATION (MCHC)  METHOD: CALCULATED						
RED CELL DISTRIBUTION WIDTH (RDW)	13.8	11.6 - 14.0	%			
METHOD: ELECTRICAL IMPEDANCE						
MENTZER INDEX	19.6					
MEAN PLATELET VOLUME (MPV)	9.3	6.8 - 10.9	fL			
METHOD: CALCULATED						
WBC DIFFERENTIAL COUNT						
NEUTROPHILS	54	40 - 80	%			
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MIC	ROSCOPY.					
LYMPHOCYTES	38	20 - 40	%			
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MIC	ROSCOPY.					
MONOCYTES	6	2 - 10	%			
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MICROSCOPY.						
EOSINOPHILS	2	1 - 6	%			
BASOPHILS	0	0 - 2	%			
METHOD: FLOWCYTOMETRY, ELECTRONIC IMPEDANCE & MIC						
ABSOLUTE NEUTROPHIL COUNT	2.96	2.0 - 7.0	thou/µL			



METHOD: FLOWCYTOMETRY & CALCULATED

Page 1 Of 14 Scan to View Report

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ARCOLLITE LYMPHOCYTE COUNT	2.09	1 - 3 thou/u	
ABSOLUTE LYMPHOCYTE COUNT  METHOD: FLOWCYTOMETRY & CALCULATED	2.09	1 - 3 thou/µ	L
ABSOLUTE MONOCYTE COUNT	0.33	0.20 - 1.00 thou/μ	ıl
METHOD : FLOWCYTOMETRY & CALCULATED	0.55	0.20 1.00 επου/ μ	· L
ABSOLUTE EOSINOPHIL COUNT	0.11	0.02 - 0.50 thou/μ	ıl
METHOD : FLOWCYTOMETRY & CALCULATED	0.11	0.02 0.30 thou, p	_
ABSOLUTE BASOPHIL COUNT	0	<b>Low</b> 0.02 - 0.10 thou/µ	ıl
METHOD : FLOWCYTOMETRY & CALCULATED	· ·	5 0102 0110 thou, p	_
MORPHOLOGY			
RBC	NORMOCYTIC NO	)RMOCHROMIC	
METHOD: MICROSCOPIC EXAMINATION			
WBC	NORMAL MORPH	OLOGY	
METHOD: MICROSCOPIC EXAMINATION			
PLATELETS	ADEQUATE		
METHOD: MICROSCOPIC EXAMINATION	-		
ERYTHROCYTE SEDIMENTATION RATE (E	SR),WHOLE		
BLOOD			
E.S.R	6	0 - 14 mm at	1 hr
METHOD: AUTOMATED (PHOTOMETRICAL CAPILLARY STOP	PED FLOW KINETIC ANALYSIS)"		
GLUCOSE FASTING, FLUORIDE PLASMA			
FBS (FASTING BLOOD SUGAR)	89	74 - 100 mg/dL	
METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)			
GLYCOSYLATED HEMOGLOBIN(HBA1C), E BLOOD	DTA WHOLE		
HBA1C  METHOD: HPLC	4.9	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)	
	03.0	× 116.0	
ESTIMATED AVERAGE GLUCOSE(EAG)	93.9	< 116.0 mg/dL	









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> SRL LIMITED - KOLKATA REF. LAB Bio-Rad Variant II Turbo CDM 5.4 S/N: 13466

PATIENT REP V2TURBO\_A1c

Patient Data

Sample ID: 8212260599 Patient ID: 0082VK000229 SUBHAJITSAHA Name:

Physician:

Sex

DOB:

Analysis Data

Analysis Performed: 08/11/2022 14:10:50 Injection Number: 2250 181

Run Number: Rack ID:

Tube Number: 2

Report Generated: 08/11/2022 15:22:46

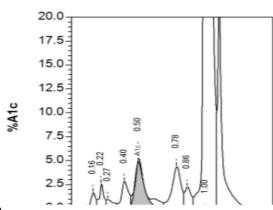
Operator ID:

Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
A1a		0.7	0.160	11713
A1b		1.0	0.220	17389
F		0.5	0.272	9178
LA1c		1.6	0.396	28362
A1c	4.9		0.499	68250
P3		3.2	0.782	57279
P4		1.1	0.861	19982
Ao		88.0	0.999	1551350

Total Area: 1.763.502

## HbA1c (NGSP) = 4.9 %



**GLUCOSE, POST-PRANDIAL, PLASMA** 









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140 - 199 Pre-diabetic > or = 200 Diabetic

METHOD: ENZYMATIC (HEXOKINASE/G-6-PDH)

#### Comments

NOTE: PP SUGAR CAN BE LOWER THAN FASTING SUGAR DUE TO THE FOLLOWING REASONS:

1)OPTIMUM AMOUNT OF GLUCOSE (i.e. 75gm) MAY NOT HAVE BEEN CONSUMED. 2)PATIENT MAY BE A KNOWN DIABETIC UNDER TREATMENT.

3)IN LATENT DIABETICS, HYPERSECRETION OF INSULIN BY THE ISLET CELLS OF PANCREAS MAY LEAD TO INCREASED UTILISATION OF POST PRANDIAL BLOOD GLUCOSE.

4)IN CASE OF HEAVY EXCERCISES LIKE TRADEMILL TEST BEFORE GIVING PP SAMPLE.

5) "DAWN PHENOMENON" WHICH IS HIGH SUGAR VALUE IN THE MORNING DUE TO NORMAL ALTERATION IN HORMONES LIKE GROWTH HORMONE, CORTISOL, EPINEPHRINE AND NOREPINEPHRIN AFTER WAKING UP.

6) TAKING TOO MUCH BLOOD PRESSURE MEDICATION MAY ALSO CAUSE THE BLOOD SUGAR TO GO UP IN THE MORNING.

## LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL	156	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD: ENZYMATIC ASSAY		,	
TRIGLYCERIDES	74	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD: GLYCEROL PHOSPHATE OXIDASE			
HDL CHOLESTEROL	51	Low: < 40 High: > / = 60	mg/dL
METHOD: ACCELERATOR SELECTIVE DETERGENT METHODOLOGY			
CHOLESTEROL LDL	90		mg/dL
NON HDL CHOLESTEROL	105	Desirable: Less than 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190 -219 Very High: >or = 220	mg/dL
METHOD: CALCULATED	2.4		
CHOL/HDL RATIO	3.1		
LDL/HDL RATIO	1.8		
VERY LOW DENSITY LIPOPROTEIN	14.8		mg/dL
LIVER FUNCTION PROFILE, SERUM			
BILIRUBIN, TOTAL  METHOD: DIAZONIUM SALT	0.90	0.2 - 1.2	mg/dL
BILIRUBIN, DIRECT METHOD: DIAZO REACTION	0.30	0.0 - 0.5	mg/dL









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DILIDIDIN INDIDECT	0.63	0.1 1.0	/ dl
BILIRUBIN, INDIRECT  METHOD : CALCULATED	0.63	0.1 - 1.0	mg/dL
TOTAL PROTEIN	7.8	6.0 - 8.30	g/dL
METHOD : BIURET	7.0	0.0 0.30	9/ 42
ALBUMIN	4.4	3.5 - 5.2	g/dL
METHOD: COLORIMETRIC (BROMCRESOL GREEN)			3,
GLOBULIN	3.4	2.0 - 3.5	g/dL
ALBUMIN/GLOBULIN RATIO	1.3	1 - 2.1	RATIO
METHOD: CALCULATED PARAMETER			
ASPARTATE AMINOTRANSFERASE (AST/SGOT)	22	5 - 34	U/L
METHOD: ENZYMATIC (NADH (WITHOUT P-5'-P)			
ALANINE AMINOTRANSFERASE (ALT/SGPT)	25	0 - 55	U/L
METHOD: ENZYMATIC (NADH (WITHOUT P-5'-P)			
ALKALINE PHOSPHATASE	68	40 - 150	U/L
METHOD: PARA-NITROPHENYL PHOSPHATE			
GAMMA GLUTAMYL TRANSFERASE (GGT)	11	11 - 59	U/L
METHOD: L-GAMMA-GLUTAMYL-4-NITROANALIDE /GLYCYLGLYC		105 000	
LACTATE DEHYDROGENASE	150	125 - 220	U/L
METHOD : IFCC LACTATE TO PYRUVATE			
BLOOD LIBEA NITROGEN (BUN), SERUM	9	8.0. 30.6	
BLOOD UREA NITROGEN  METHOD: UREASE METHOD	9	8.9 - 20.6	mg/dL
CREATININE, SERUM			
CREATININE	1.10	0.60 - 1.2	mg/dL
METHOD: KINETIC ALKALINE PICRATE	1.10	0.00 - 1.2	Hig/uL
BUN/CREAT RATIO			
BUN/CREAT RATIO	8.26	5.0 - 15.0	
URIC ACID, SERUM	0.20	3.0 13.0	
URIC ACID	5.5	3.5 - 7.2	mg/dL
METHOD : URICASE	5.5	3.3 - 7.2	nig/aL
TOTAL PROTEIN, SERUM			
TOTAL PROTEIN	7.8	6.0 - 8.3	g/dL
METHOD : BIURET	7.0	0.0 0.5	g/uL
ALBUMIN, SERUM			
ALBUMIN	4.4	3.5 - 5.2	g/dL
METHOD : COLORIMETRIC (BROMCRESOL GREEN)	11 1	3.3 3.2	9, 42
1 GOLDIA IL III GOLDINGICO CINELII)			

**GLOBULIN** 









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CLORULIN	2.4	20 25	~ /-11
GLOBULIN METHOD : CALCULATED PARAMETER	3.4	2.0 - 3.5	g/dL
METHOD : CALCULATED PARAMETER			
ELECTROLYTES (NA/K/CL), SERUM	400	106 115	
SODIUM, SERUM	139	136 - 145	mmol/L
METHOD: ION SELECTIVE ELECTRODE TECHNOLOG		25.54	1.0
POTASSIUM, SERUM	4.30	3.5 - 5.1	mmol/L
METHOD: ION SELECTIVE ELECTRODE TECHNOLOG		98 - 107	mmal/l
CHLORIDE, SERUM  METHOD: ION SELECTIVE ELECTRODE TECHNOLOGY	100	98 - 107	mmol/L
PHYSICAL EXAMINATION, URINE	31 INDIRECT		
COLOR	PALE YELLOW		
APPEARANCE	CLEAR		
	CLLAR		
CHEMICAL EXAMINATION, URINE	6.0	4 7 7 5	
PH	6.0	4.7 - 7.5	
SPECIFIC GRAVITY	1.015	1.003 - 1.035	
METHOD: DIPSTICK	NOT DETECTED	NOT DETECTED	
PROTEIN  METHOD: DIPSTICK	NOT DETECTED	NOT DETECTED	
GLUCOSE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK	NOT DETECTED	NOT DETECTED	
KETONES	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK	1101 52120125	1101 52120125	
BLOOD	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
BILIRUBIN	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
UROBILINOGEN	NORMAL	NORMAL	
METHOD : DIPSTICK			
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : DIPSTICK			
LEUKOCYTE ESTERASE	NEGATIVE	NOT DETECTED	
MICROSCOPIC EXAMINATION, URIN	IE		
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
PUS CELL (WBC'S)	1-2	0-5	/HPF
EPITHELIAL CELLS	1-2	0-5	/HPF
CASTS	NOT DETECTED		,









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Test Report Status Final Results Biological Reference Interval Units

BACTERIA NOT DETECTED NOT DETECTED
YEAST NOT DETECTED NOT DETECTED

Comments

URINALYSIS: MICROSCOPIC EXAMINATION IS CARRIED OUT ON CENTRIFUGED URINARY SEDIMENT.

THYROID PANEL, SERUM

T3 118.8 35 - 193 ng/dL

METHOD : TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

T4 10.20 4.87 - 11.71 μg/dL

METHOD: TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY

TSH 3RD GENERATION 1.835 0.350 - 4.940 μIU/mL

METHOD: TWO-STEP CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY







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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 hypothyroidism, 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 hypothyroidism, 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 TYPE A

 ${\tt METHOD}: {\tt TUBE} \ {\tt AGGLUTINATION}$ 

RH TYPE POSITIVE

METHOD: TUBE AGGLUTINATION

**XRAY-CHEST** 

IMPRESSION NO ABNORMALITY DETECTED









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TMT OR ECHO

TMT OR ECHO ECHO DONE INSTEAD OF TMT

ECHO - NORMAL STUDY.

**ECG** 

**ECG** WITHIN NORMAL LIMITS

**MEDICAL HISTORY** 

RELEVANT PRESENT HISTORY NOT SIGNIFICANT

RELEVANT PAST HISTORY APPENDICECTOMY, COVID 19

RELEVANT PERSONAL HISTORY NOT SIGNIFICANT RELEVANT FAMILY HISTORY NOT SIGNIFICANT OCCUPATIONAL HISTORY **NOT SIGNIFICANT** HISTORY OF MEDICATIONS NOT SIGNIFICANT

**ANTHROPOMETRIC DATA & BMI** 

HEIGHT IN METERS 1.72 mts WEIGHT IN KGS. 72 Kas

**BMI** 24 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 **HEALTHY BUILT / SKELETAL FRAMEWORK AVERAGE** FACIAL APPEARANCE NORMAL SKIN NORMAL UPPER LIMB **NORMAL** LOWER LIMB **NORMAL NORMAL NECK** 

NECK LYMPHATICS / SALIVARY GLANDS NOT ENLARGED OR TENDER

THYROID GLAND **NOT ENLARGED** 

CAROTID PULSATION **NORMAL TEMPERATURE NORMAL PULSE** 84/MINS RESPIRATORY RATE **NORMAL** 









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F-703, LADO SARAI, MEHRAULI

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

30-B, CHOWRINGEE MANSION, JAWAHARLAL NEHRU ROAD,

KOLKATA, 700016

WEST BENGAL, INDIA

Tel: 033-22267333,46019048, Fax: 033-22271324

CIN - U74899PB1995PLC045956

**PATIENT NAME: SUBHAJIT SAHA** PATIENT ID: SUBHM22049082

ACCESSION NO: 0082VK000229 AGE: 32 Years SEX: Male ABHA NO:

DRAWN: 08/11/2022 08:50 RECEIVED: 08/11/2022 09:11 REPORTED: 09/11/2022 13:24

REFERRING DOCTOR: DR. ACROFEMI HEALTHCARE LTD ( MEDIWHEEL ) CLIENT PATIENT ID:

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

**CARDIOVASCULAR SYSTEM** 

ВР 115/76 mm/Hg

PERICARDIUM NORMAL APEX BEAT **NORMAL** 

**HEART SOUNDS** S1, S2 HEARD NORMALLY

**MURMURS ABSENT** 

**RESPIRATORY SYSTEM** 

SIZE AND SHAPE OF CHEST NORMAI MOVEMENTS OF CHEST SYMMETRICAL **BREATH SOUNDS INTENSITY** NORMAL

**BREATH SOUNDS QUALITY** VESICULAR (NORMAL)

ADDED SOUNDS **ABSENT** 

**PER ABDOMEN** 

**APPEARANCE NORMAL** VENOUS PROMINENCE **ABSENT LIVER NOT PALPABLE** 

**SPLEEN NOT PALPABLE** 

**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 DISTANT VISION RIGHT EYE WITHOUT GLASSES 6/6 DISTANT VISION LEFT EYE WITHOUT GLASSES 6/6 NEAR VISION RIGHT EYE WITHOUT GLASSES N6









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NEAR VISION LEFT EYE WITHOUT GLASSES **N6** COLOUR VISION NORMAL

**BASIC ENT EXAMINATION** 

EXTERNAL EAR CANAL NORMAL TYMPANIC MEMBRANE NORMAL

NOSE NO ABNORMALITY DETECTED

SINUSES NORMAL

NO ABNORMALITY DETECTED THROAT

**TONSILS** NOT ENLARGED

**BASIC DENTAL EXAMINATION** 

TEETH **NORMAL GUMS HEALTHY** 

**SUMMARY** 

REMARKS / RECOMMENDATIONS Mr. SAHA CAME FOR ANNUAL HEALTH CHECK-UP. ON EXAMINATION AND

INVESTIGATIONS HE IS FOUND TO BE IN GOOD HEALTH.

### Comments

MEDICAL EXAMINATION DONE BY: DR. B. N. JANA, MBBS, DCH CONSULTANT WELLNESS CLINIC PARK STREET, KOLKATA

BLOOD COUNTS, EDTA WHOLE BLOODThe 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 COUNTThe 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.









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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)

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

#### Increased in

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

### Decreased in

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

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,

While failed 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.
- 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, 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.

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.









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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, billiary 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 GravisMuscular 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 made up of albumin and

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. 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.

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.



Page 13 Of 14





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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. B. N. Jana, MBBS, DCH Consultant

## **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



