







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
24 SCO, SECTOR 11 D
CHANDIGARH, 160011
PUNJAB, INDIA
Tel : 9111591115, Fax :
CIN - U74899PB1995PLC045956

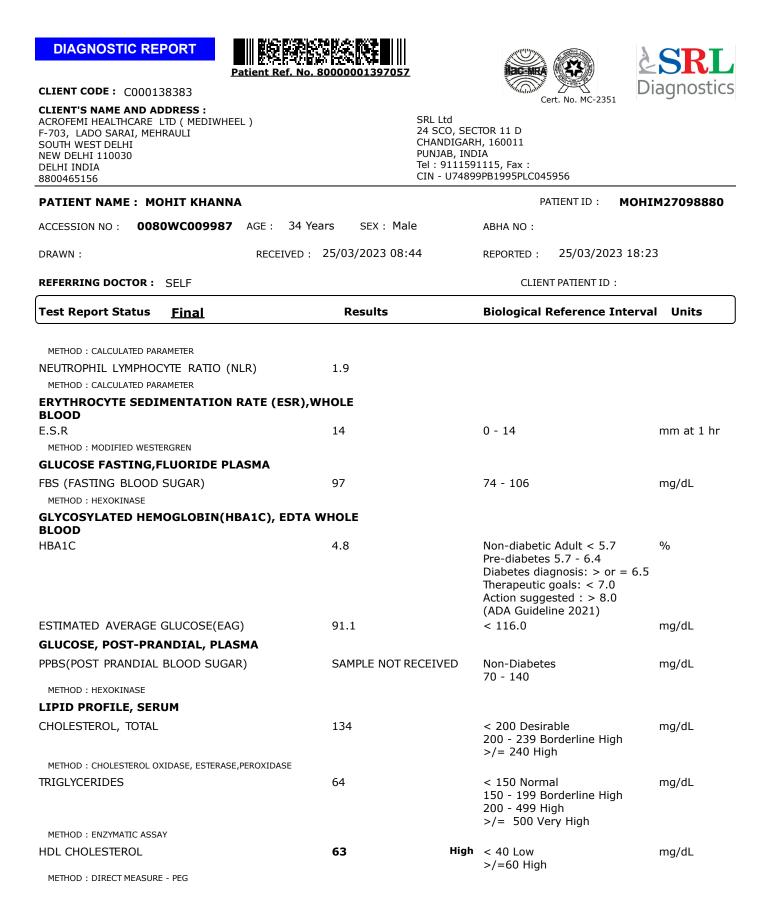
PATIENT NAME : MOHIT K	HANNA	PATIENT ID : MOHIM27098880
ACCESSION NO : 0080WC00	99987 AGE : 34 Years SEX : Male	ABHA NO :
DRAWN :	RECEIVED : 25/03/2023 08:44	REPORTED : 25/03/2023 18:23
REFERRING DOCTOR : SELF		CLIENT PATIENT ID:

MEDI WHEEL FULL BODY HEALTH CHECK UP BELOW 40 MALE

BLOOD COUNTS,EDTA WHOLE BLOOD				
HEMOGLOBIN (HB)	12.9	Low	13.0 - 17.0	g/dL
METHOD : CYANMETHEMOGLOBIN METHOD				
RED BLOOD CELL (RBC) COUNT	4.48	Low	4.5 - 5.5	mil/µL
WHITE BLOOD CELL (WBC) COUNT	4.80		4.0 - 10.0	thou/µL
PLATELET COUNT	168		150 - 410	thou/µL
RBC AND PLATELET INDICES				
HEMATOCRIT (PCV)	38.6	Low	40.0 - 50.0	%
MEAN CORPUSCULAR VOLUME (MCV)	86.1		83.0 - 101.0	fL
METHOD : DERIVED PARAMETER FROM RBC HISTOGRAM				
MEAN CORPUSCULAR HEMOGLOBIN (MCH)	28.7		27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER				
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED PARAMETER	33.4		31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW)	13.5		11.6 - 14.0	%
METHOD : CALCULATED PARAMETER				
MENTZER INDEX	19.2			
MEAN PLATELET VOLUME (MPV)	7.3		6.8 - 10.9	fL
METHOD : DERIVED PARAMETER FROM PLATELET HISTOGRAM				
WBC DIFFERENTIAL COUNT				
NEUTROPHILS	61		40 - 80	%
METHOD : LIGHT ABSORBANCE OF CYTCHEMICAL STAINED CELL	S IMPEDENCE			
LYMPHOCYTES	28		20 - 40	%
METHOD : LIGHT ABSORBANCE OF CYTCHEMICAL STAINED CELL	S IMPEDENCE			
MONOCYTES	4		2.0 - 10.0	%
METHOD : LIGHT ABSORBANCE OF CYTCHEMICAL STAINED CELL				
EOSINOPHILS	7	High	1.0 - 6.0	%
BASOPHILS	0		0 - 1	%
METHOD : LIGHT ABSORBANCE OF CYTCHEMICAL STAINED CELL				
ABSOLUTE NEUTROPHIL COUNT	2.93		2.0 - 7.0	thou/µL
ABSOLUTE LYMPHOCYTE COUNT	1.34		1.0 - 3.0	thou/µL
ABSOLUTE MONOCYTE COUNT	0.19	Low	0.2 - 1.0	thou/µL
ABSOLUTE EOSINOPHIL COUNT	0.34		0.02 - 0.50	thou/µL
ABSOLUTE BASOPHIL COUNT	0	Low	0.02 - 0.10	thou/µL















CLIENT PATIENT ID:



CLIENT CODE: C000138383

DIAGNOSTIC REPORT

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PATIENT NAME : MOHIT KHANNA

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PUNJAB, INDIA
Tel : 9111591115, Fax :
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PATIENT ID : **MOHIM27098880**

ACCESSION NO :	0080WC009987	AGE: 34 Years	SEX : Male	ABHA NO :	
DRAWN :		RECEIVED : 25/03	3/2023 08:44	REPORTED :	25/03/2023 18:23

REFERRING DOCTOR : SELF

Test Report Status	<u>Final</u>	Results		Biological Reference Interva	al Units
CHOLESTEROL LDL		58		< 100 Optimal 100 - 129 Near or above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
METHOD : CHOLESTEROL O	XIDASE, ESTERASE, PEROXIDASE			, 2	
NON HDL CHOLESTER	DL	71		Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
METHOD : CALCULATED PAR	AMETER				
VERY LOW DENSITY LI METHOD : CALCULATED PAR		12.8		Desirable value : 10 - 35	mg/dL
CHOL/HDL RATIO		2.1	Low	3.3-4.4 Low Risk 4.5-7.0 Average Risk 7.1-11.0 Moderate Risk > 11.0 High Risk	
METHOD : CALCULATED PAR	AMETER				
LDL/HDL RATIO		0.9		0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate I >6.0 High Risk	Risk
METHOD : CALCULATED PAR	AMETER			-	













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ACCESSION NO : 0080WC009987	AGE : 34 Years SEX : Male	ABHA NO :
PATIENT NAME : MOHIT KHANNA	A	PATIENT ID : MOHIM27098880

Interpretation(s)

1) Cholesterol levels help assess the patient risk status and to follow the progress of patient under treatment to lower serum cholesterol concentrations.

2) Serum Triglyceride (TG) are a type of fat and a major source of energy for the body. Both quantity and composition of the diet impact on plasma triglyceride concentrations. Elevations in TG levels are the result of overproduction and impaired clearance. High TG are associated with increased risk for CAD (Coronary artery disease) in patients with other risk factors, such as low HDL-C, some patient groups with elevated apolipoprotein B concentrations, and patients with forms of LDL that may be particularly atherogenic.

3)HDL-C plays a crucial role in the initial step of reverse cholesterol transport, this considered to be the primary atheroprotective function of HDL

4) LDL -C plays a key role in causing and influencing the progression of atherosclerosis and, in particular, coronary sclerosis. The majority of cholesterol stored in atherosclerotic plaques originates from LDL, thus LDL-C value is the most powerful clinical predictor.

5)Non HDL cholesterol: Non-HDL-C measures the cholesterol content of all atherogenic lipoproteins, including LDL hence it is a better marker of risk in both primary and secondary prevention studies. Non-HDL-C also covers, to some extent, the excess ASCVD risk imparted by the sdLDL, which is significantly more atherogenic than the normal large buoyant particles, an elevated non-HDL-C indirectly suggests greater proportion of the small, dense variety of LDL particles

Serum lipid profile is measured for cardiovascular risk prediction.Lipid Association of India recommends LDL-C as primary target and Non HDL-C as co-primary treatment target.

Risk Stratification for ASCVD (Atherosclerotic cardiovascular disease) by Lipid Association of India

Risk Category			
Extreme risk group	A.CAD with > 1 feature of high risk group		
	B. CAD with > 1 feature of Very high risk	group or recurrent ACS (within 1 year) despite LDL-C	
	< or $=$ 50 mg/dl or polyvascular disease		
Very High Risk	1. Established ASCVD 2. Diabetes with 2	major risk factors or evidence of end organ damage 3.	
	Familial Homozygous Hypercholesterolem	ia	
High Risk	1. Three major ASCVD risk factors. 2. Diabetes with 1 major risk factor or no evidence of end		
_	organ damage. 3. CKD stage 3B or 4. 4. LDL >190 mg/dl 5. Extreme of a single risk factor. 6.		
	Coronary Artery Calcium - CAC >300 AU. 7. Lipoprotein a >/= 50mg/dl 8. Non stenotic carotid		
	plaque		
Moderate Risk	2 major ASCVD risk factors		
Low Risk	0-1 major ASCVD risk factors		
Major ASCVD (Atherosclerotic cardiovascular disease) Risk Factors			
1. Age $>$ or $=$ 45 years in males and $>$ or $=$ 55 years in females		3. Current Cigarette smoking or tobacco use	
2. Family history of p	premature ASCVD	4. High blood pressure	
5. Low HDL			

Newer treatment goals and statin initiation thresholds based on the risk categories proposed by LAI in 2020.

Risk Group	Treatment Goals		Consider Drug Thera	oy
	LDL-C (mg/dl)	Non-HDL (mg/dl)	LDL-C (mg/dl)	Non-HDL (mg/dl)
Extreme Risk Group	<50 (Optional goal	< 80 (Optional goal	>OR = 50	>OR = 80
Category A	< OR = 30)	< OR = 60)		













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	OR: SELF		CLIENT PATIENT ID :

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

Extreme Risk Group	<or 30<="" =="" th=""><th><or 60<="" =="" th=""><th>> 30</th><th>>60</th></or></th></or>	<or 60<="" =="" th=""><th>> 30</th><th>>60</th></or>	> 30	>60
Category B				
Very High Risk	<50	<80	>OR= 50	>OR= 80
High Risk	<70	<100	>OR= 70	>OR=100
Moderate Risk	<100	<130	>OR=100	>OR=130
Low Risk	<100	<130	>OR=130*	>OR=160

*After an adequate non-pharmacological intervention for at least 3 months.

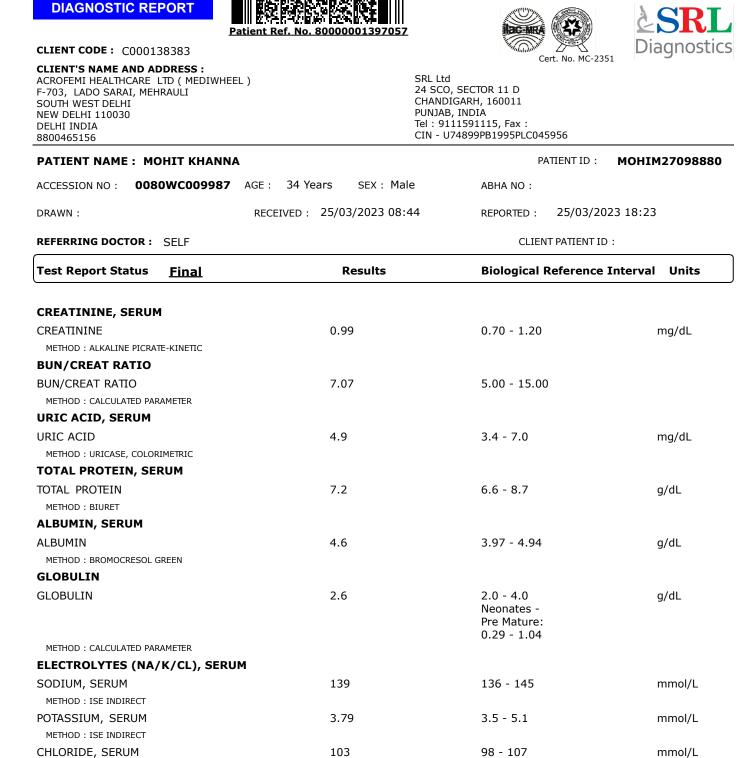
References: Management of Dyslipidaemia for the Prevention of Stroke: Clinical Practice Recommendations from the Lipid Association of India. Current Vascular Pharmacology, 2022, 20, 134-155.

LIVER FUNCTION PROFILE, SERUM

METHOD : DIAZONIUM ION, BLANKED (ROCHE) BILIRUBIN, DIRECT 0.21 0.00 - 0.30 mg, METHOD : DIAZOTIZATION BILIRUBIN, INDIRECT 0.37 0.00 - 0.60 mg, METHOD : CALCULATED PARAMETER 0.37 0.00 - 0.60 mg,	/dL /dL /dL
BILIRUBIN, DIRECT 0.21 0.00 - 0.30 mg, METHOD : DIAZOTIZATION 0.37 0.00 - 0.60 mg, BILIRUBIN, INDIRECT 0.37 0.00 - 0.60 mg, METHOD : CALCULATED PARAMETER 0.37 0.00 - 0.60 mg,	I/dL
METHOD : DIAZOTIZATION BILIRUBIN, INDIRECT 0.37 0.00 - 0.60 mg METHOD : CALCULATED PARAMETER	I/dL
BILIRUBIN, INDIRECT0.370.00 - 0.60mgMETHOD : CALCULATED PARAMETER	
METHOD : CALCULATED PARAMETER	
	ч
TOTAL PROTEIN 7.2 6.6 - 8.7 g/d	í L
METHOD : BIURET	
ALBUMIN 4.6 3.97 - 4.94 g/d	IL .
METHOD : BROMOCRESOL GREEN	
GLOBULIN 2.6 2.0 - 4.0 g/d	IL
Neonates - Pre Mature:	
0.29 - 1.04	
METHOD : CALCULATED PARAMETER	
ALBUMIN/GLOBULIN RATIO 1.8 1.0 - 2.0 RAT	по
METHOD : CALCULATED PARAMETER	
ASPARTATE AMINOTRANSFERASE (AST/SGOT) 16 0 - 40 U/L	-
ALANINE AMINOTRANSFERASE (ALT/SGPT) 10 0 - 41 U/L	-
METHOD : UV WITHOUT PYRIDOXAL-5 PHOSPHATE	
ALKALINE PHOSPHATASE 67 40 - 129 U/L	-
METHOD : PNPP - AMP BUFFER	
GAMMA GLUTAMYL TRANSFERASE (GGT) 13 8 - 61 U/L	-
METHOD : GAMMA GLUTAMYLCARBOXY 4NITROANILIDE	
LACTATE DEHYDROGENASE 131 Low 135 - 225 U/L	-
METHOD : LACTATE -PYRUVATE	
BLOOD UREA NITROGEN (BUN), SERUM	
BLOOD UREA NITROGEN 7 6 - 20 mg	/dL
METHOD : UREASE - UV	









METHOD : ISE INDIRECT









Biological Reference Interval



Units

CLIENT CODE : C000138383

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PATIENT NAME : MOHIT KHANNA PATIENT ID : MOHIM27098880 ACCESSION NO : 0080WC009987 AGE : 34 Years SEX : Male ABHA NO : DRAWN : RECEIVED : 25/03/2023 08:44 REPORTED : 25/03/2023 18:23 REFERRING DOCTOR : SELF CLIENT PATIENT ID :

Results

Test Report Status Final

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

COLOR PALE YELLOW APPEARANCE CLEAR CHEMICAL EXAMINATION, URINE 4.7 - 7.5 PH 6.0 METHOD : REFLECTANCE SPECTROPHOTOMETRY- DOUBLE INDICATOR METHOD 1.005 SPECIFIC GRAVITY 1.003 - 1.035 METHOD : REFLECTANCE SPECTROPHOTOMETRY (PKA CHANGE OF PRETREATED POLY ELECTROLYTES) PROTEIN NOT DETECTED NOT DETECTED METHOD : REFLECTANCE SPECTROPHOTOMETRY (PROTEIN-ERROR-OF-INDICATORS PRINCIPLE) GLUCOSE NOT DETECTED NOT DETECTED METHOD : REFLECTANCE SPECTROPHOTOMETRY(GLUCOSE OXIDAE/PEROXIDASE METHOD) **KETONES** NOT DETECTED NOT DETECTED METHOD : REFLECTANCE SPECTROPHOTOMETRY (SODIUM NITROPRUSSIDE REACTION) BLOOD NOT DETECTED NOT DETECTED METHOD : REFLECTANCE SPECTROPHOTOMETRY (PEROXIDASE METHOD) NOT DETECTED BILIRUBIN NOT DETECTED









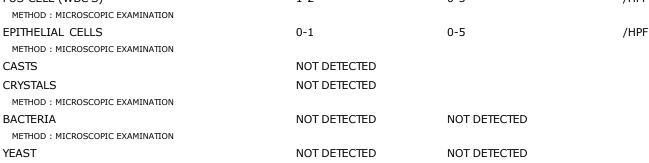




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PATIENT NAME : MOHIT KHANNA		PATIENT ID : MOHIM2709888	0
ACCESSION NO : 0080WC009987 AGE : 34 Ye	ears SEX : Male	ABHA NO :	
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REFERRING DOCTOR : SELF		CLIENT PATIENT ID :	
Test Report Status <u>Final</u>	Results	Biological Reference Interval Units	
METHOD : REFLECTANCE SPECTROPHOTOMETRY (DIAZO REACTION)		
UROBILINOGEN	NORMAL	NORMAL	
METHOD : REFLECTANCE SPECTROPHOTOMETRY - EHRLICH REACT	ON		
NITRITE	NOT DETECTED	NOT DETECTED	
METHOD : REFLECTANCE SPECTROPHOTOMETRY, CONVERSION OF	NITRATE TO NITRITE		
LEUKOCYTE ESTERASE	NOT DETECTED	NOT DETECTED	
MICROSCOPIC EXAMINATION, URINE			
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED /HPF	
METHOD : MICROSCOPIC EXAMINATION			
PUS CELL (WBC'S)	1-2	0-5 /HPF	
METHOD : MICROSCOPIC EXAMINATION			















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REFERRING DOCTOR	: SELE		CLIENT PATIENT ID:
DRAWN :		RECEIVED : 25/03/2023 08:44	REPORTED : 25/03/2023 18:23
ACCESSION NO : 00	080WC009987	AGE : 34 Years SEX : Male	ABHA NO :
PATIENT NAME : N	MOHIT KHANNA		PATIENT ID : MOHIM27098880

Interpretation(s)

The following table describes the probable conditions, in which the analytes are present in urine

Presence of	Conditions		
Proteins	Inflammation or immune illnesses		
Pus (White Blood Cells)	Urinary tract infection, urinary tract or kidney stone, tumors or any kind of kidney impairment		
Glucose	Diabetes or kidney disease		
Ketones	Diabetic ketoacidosis (DKA), starvation	or thirst	
Urobilinogen	Liver disease such as hepatitis or cirrhos		
Blood	Renal or genital disorders/trauma		
Bilirubin	Liver disease		
Erythrocytes	Urological diseases (e.g. kidney and bladder cancer, urolithiasis), urinary tract infection and glomerular diseases		
Leukocytes	Urinary tract infection, glomerulonephritis, interstitial nephritis either acute or chronic, polycystic kidney disease, urolithiasis, contamination by genital secretions		
Epithelial cells	Urolithiasis, bladder carcinoma or hydronephrosis, ureteric stents or bladder catheters for prolonged periods of time		
Granular Casts	Low intratubular pH, high urine osmolality and sodium concentration, interaction with Bence-Jones protein		
Hyaline casts	Physical stress, fever, dehydration, acute congestive heart failure, renal diseases		
Calcium oxalate	Metabolic stone disease, primary or secondary hyperoxaluria, intravenous infusion of large doses of vitamin C, the use of vasodilator naftidrofuryl oxalate or the gastrointestinal lipase inhibitor orlistat, ingestion of ethylene glycol or of star fruit (Averrhoa carambola) or its juice		
Uric acid	arthritis		
Bacteria	Urinary infectionwhen present in significant numbers & with pus cells.		
Trichomonas vaginalis	Vaginitis, cervicitis or salpingitis		
HYROID PANEL, SERUM			
3	111.9	80.00 - 200.00	
METHOD : COMPETITIVE (ECLIA)			

5.720

High 0.270 - 4.200







ng/dL

µg/dL

µIU/mL









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ACCESSION NO : 0080WC009987	AGE : 34 Years SEX : Male	ABHA NO :
PATIENT NAME : MOHIT KHANN	Α	PATIENT ID : MOHIM27098880

Interpretation(s)

Triiodothyronine T3, Thyroxine T4, and Thyroid Stimulating Hormone TSH are thyroid hormones which affect almost every physiological process in the body, including growth, development, metabolism, body temperature, and heart rate.

Production of T3 and its prohormone thyroxine (T4) is activated by thyroid-stimulating hormone (TSH), which is released from the pituitary gland. Elevated concentrations of T3, and T4 in the blood inhibit the production of TSH.

Excessive secretion of thyroxine in the body is hyperthyroidism, and deficient secretion is called hypothyroidism.

In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hyperthyroidism, TSH levels are low. Below mentioned are the guidelines for Pregnancy related reference ranges for Total T4, TSH & Total T3.Measurement of the serum TT3 level is a more sensitive test for the diagnosis of hyperthyroidism, and measurement of TT4 is more useful in the diagnosis of hypothyroidism.Most of the thyroid hormone in blood is bound to transport proteins. Only a very small fraction of the circulating hormone is free and biologically active. It is advisable to detect Free T3, FreeT4 along with TSH, instead of testing for albumin bound Total T3, Total T4.

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

REF: 1. TIETZ Fundamentals of Clinical chemistry 2.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.

PHYSICAL EXAMINATION, STOOL

COLOUR	SAMPLE NOT RECEIVED			
ABO GROUP & RH TYPE, EDTA WHOLE BLOOD				
ABO GROUP	TYPE O			
METHOD : SLIDE AGGLUTINATION				
RH TYPE	POSITIVE			
METHOD : SLIDE AGGLUTINATION				













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ACCESSION NO : 0080WC009982	AGE : 34 Years SEX : Male	ABHA NO :
PATIENT NAME : MOHIT KHANI	PATIENT ID : MOHIM27098880	

Interpretation(s)

BLOOD COUNTS, EDTA WHOLE BLOOD-The cell morphology is well preserved for 24hrs. However after 24-48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology. RBC AND PLATELET INDICES-Mentzer index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(>13)

from Beta thalassaemia trait

(<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait. WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive

patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.

(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients A.-P. Yang, et al. International Immunopharmacology 84 (2020) 106504 This ratio element is a calculated parameter and out of NABL scope.

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

Erythrocyte sedimentation rate (ESR) is a text 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,

salicvlates)

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, stomach, fibrosarcoma), infant of a diabetic mother, enzyme deficiency diseases(e.g.galactosemia), Drugs-insulin, ethanol, propranolol sulfonylureas,tolbutamide,and other oral hypoglycemic agents.

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

eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.

eAG gives an evaluation of blood glucose levels for the last couple of months.
 eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :





Scan to View Details









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
24 SCO, SECTOR 11 D
CHANDIGARH, 160011
PUNJAB, INDIA
Tel : 9111591115, Fax :
CIN - U74899PB1995PLC045956

Test Report Status Final	Results	Biological Reference Interval Units
REFERRING DOCTOR : SELF		CLIENT PATIENT ID :
DRAWN :	RECEIVED : 25/03/2023 08:44	REPORTED : 25/03/2023 18:23
ACCESSION NO : 0080WC009987	AGE: 34 Years SEX: Male	ABHA NO :
PATIENT NAME : MOHIT KHANN	PATIENT ID : MOHIM27098880	

1. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss, hemolytic anemia) will falsely lower HbA1c test results. Fructosamine is recommended in these patients which indicates diabetes control over 15 days.

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

3. 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.

4. Interference of hemoglobinopathies in HbA1c estimation is seen in

a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.

b) Heterozygous state detected (D10 is 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

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-

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 vellow 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 in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin then 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 increase during circular hepatitis, biockage of the bile duct, cirritosis of the invertified cancel, kicine y 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 hepatotellular injury, to determine liver health.AST levels increase during acute hepatitis, sometimes due to a viral infection, ischemia to the liver, chronic hepatitis, obstruction of bile ducts, cirrhosis.

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

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

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

(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, Muscuophy URIC ACID, SERUM-**Causes of Increased levels:**-Dietary(High Protein Intake,Prolonged Fasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type 2 DM,Metabolic syndrome **Causes of decreased levels**-Low Zinc intake,OCP,Multiple Sclerosis TOTAL PROTEIN, SERUM-is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.

Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstroms disea Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.

ÁLBUMIN, 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.





DIAGNOSTIC REPO	ORT		2				3	
	Pati	ent Ref. No. 80000001	397057		AC-MRA			SRL
CLIENT CODE: C000138	383				Ce	27	Dia	gnostics
CLIENT'S NAME AND ADD ACROFEMI HEALTHCARE LTI F-703, LADO SARAI, MEHRA SOUTH WEST DELHI NEW DELHI 110030 DELHI INDIA 8800465156	O (MEDIWHEEL)		24 CH PU Tel	L Ltd SCO, SECTOR 1: ANDIGARH, 160 NJAB, INDIA : 9111591115, N - U74899PB199	1 D 011 Fax :		-	
PATIENT NAME : MOH	IT KHANNA				PA	ATIENT ID:	MOHIM	27098880
ACCESSION NO : 0080	NC009987 A	GE: 34 Years SI	EX : Male	ABHA	NO :			
DRAWN :		RECEIVED : 25/03/20	023 08:44	REPO	RTED :	25/03/20	23 18:23	
REFERRING DOCTOR : S	ELF				CLIEN	T PATIENT ID	:	
Test Report Status	<u>Final</u>	Res	ults	Biol	ogical I	Reference	Interval	Units
End Of Report Please visit www.srlworld.com for related Test Information for this accession TEST MARKED WITH '*' ARE OUTSIDE THE NABL ACCREDITED SCOPE OF THE LABORATORY. Wandhi Yang								

Dr.Pranjali Vasisht LAB HEAD



Lab Consultant

0 0

DR.CHANDNI GARG CONSULTANT PATHOLOGIST

CONDITIONS OF LABORATORY TESTING & REPORTING

1. It is presumed that the test sample belongs to the patient named or identified in the test requisition form.

2. All tests are performed and reported as per the

turnaround time stated in the SRL Directory of Services. 3. Result delays could occur due to unforeseen

circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.

- 4. A requested test might not be performed if:
 - i. Specimen received is insufficient or inappropriate
 - ii. Specimen quality is unsatisfactory
 - iii. Incorrect specimen type

iv. Discrepancy between identification on specimen container label and test requisition form

5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.

6. Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.

7. Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.

8. Test results cannot be used for Medico legal purposes. 9. In case of queries please call customer care

(91115 91115) within 48 hours of the report.

SRL Limited

Fortis Hospital, Sector 62, Phase VIII, Mohali 160062



