





NETRM010790282

CLIENT CODE : C000138354

PATIENT NAME : NETRAPAL

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 ID:

ACCESSION NO : 0282WC004292 AGE	: 32 Years SEX : Male	ABHA NO :	
DRAWN : 28/03/2023 09:20 RE	CEIVED : 28/03/2023 09:47	REPORTED : 30/03/2023 18:2	4
REFERRING DOCTOR : SELF		CLIENT PATIENT ID :	
Test Report Status Final	Results	Biological Reference Interva	I Units
MEDI WHEEL FULL BODY HEALTH CHE	CK UP BELOW 40 MALE		
BLOOD COUNTS,EDTA WHOLE BLOOD			
HEMOGLOBIN (HB) METHOD : SPECTROPHOTOMETRY	13.4	13.0 - 17.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : IMPEDANCE	4.51	4.5 - 5.5	mil/µL
WHITE BLOOD CELL (WBC) COUNT METHOD : IMPEDANCE	4.70	4.0 - 10.0	thou/µL
PLATELET COUNT	150	150 - 410	thou/µL
METHOD : IMPEDANCE RBC AND PLATELET INDICES			
HEMATOCRIT (PCV)	39.6 Low	40 - 50	%
METHOD : CALCULATED			
MEAN CORPUSCULAR VOLUME (MCV)	87.8	83 - 101	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE			
MEAN CORPUSCULAR HEMOGLOBIN (MCH) 29.6	27.0 - 32.0	pg
METHOD : CALCULATED PARAMETER			
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION (MCHC) METHOD : CALCULATED PARAMETER	33.7	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : DERIVED FROM IMPEDANCE MEASURE	16.0 High	11.6 - 14.0	%
MENTZER INDEX	19.5		
MEAN PLATELET VOLUME (MPV)	14.1 High	6.8 - 10.9	fL
METHOD : DERIVED FROM IMPEDANCE MEASURE			
WBC DIFFERENTIAL COUNT			
NEUTROPHILS	58	40 - 80	%
METHOD : DHSS FLOWCYTOMETRY			
LYMPHOCYTES	33	20 - 40	%
METHOD : DHSS FLOWCYTOMETRY			
MONOCYTES	7	2 - 10	%
METHOD : DHSS FLOWCYTOMETRY			
EOSINOPHILS	2	1 - 6	%
METHOD : DHSS FLOWCYTOMETRY			
BASOPHILS	0	0 - 2	%

2.73

2.0 - 7.0



METHOD : IMPEDANCE

ABSOLUTE NEUTROPHIL COUNT



thou/µL



Patient Ref. No. 775000002738762



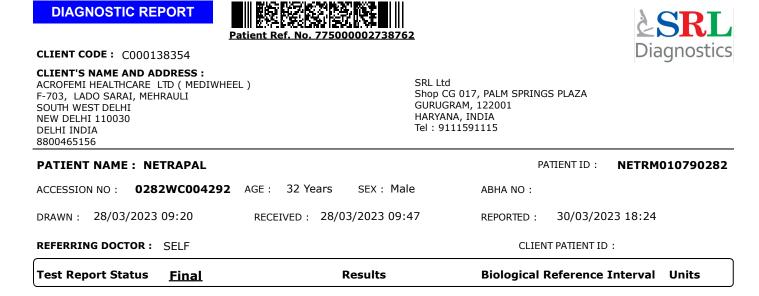
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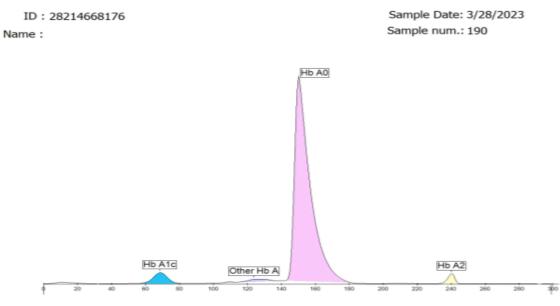
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Test Report Status <u>Final</u>	Results		Biological Reference In	nterval Units
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
ABSOLUTE LYMPHOCYTE COUNT	1.55		1 - 3	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
ABSOLUTE MONOCYTE COUNT	0.34		0.20 - 1.00	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
ABSOLUTE EOSINOPHIL COUNT	0.10		0.02 - 0.50	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
ABSOLUTE BASOPHIL COUNT	0.01	Low	0.02 - 0.10	thou/µL
METHOD : DHSS FLOWCYTOMETRY, CALCULATED				
NEUTROPHIL LYMPHOCYTE RATIO (NLR)	1.7			
METHOD : CALCULATED				
ERYTHROCYTE SEDIMENTATION RATE (ESR),WHOLE			
BLOOD	2		0 14	
			0 - 14	mm at 1 hr
METHOD : AUTOMATED (PHOTOMETRICAL CAPILLARY STO	PPED FLOW KINETIC ANALYSIS)			
GLUCOSE FASTING, FLUORIDE PLASMA	0.5		N 175 00	
FBS (FASTING BLOOD SUGAR)	86		Normal 75 - 99 Pre-diabetics: 100 - 125 Diabetic: > or = 126	mg/dL
METHOD : SPECTROPHOTOMETRY HEXOKINASE				
GLYCOSYLATED HEMOGLOBIN(HBA1C), BLOOD	EDTA WHOLE			
HBA1C	5.2		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) METHOD : CALCULATED PARAMETER	102.5		< 116	mg/dL







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



A1c Haemoglobin Electrophoresis

Fractions	%	mmol/mol	Cal. %	
Hb A1c	-	33	5.2	
Other Hb A	1.5			
Hb AO	92.0			
Hb A2	2.1			

70 - 139

HbA1c % cal :5.2 %

84

Comments :

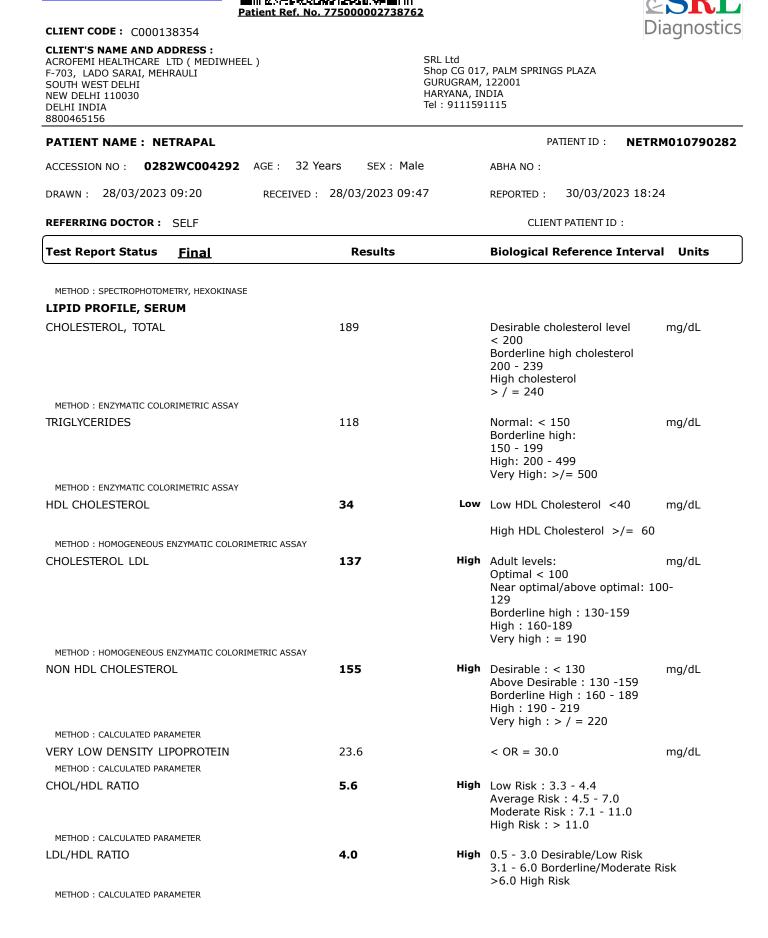
GLUCOSE, POST-PRANDIAL, PLASMA

PPBS(POST PRANDIAL BLOOD SUGAR)



mg/dL







DIAGNOSTIC REPORT







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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 Hypercholesterolemi	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		3. Current Cigarette smoking or tobacco use	
2. Family history of 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 Therapy	
	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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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

BILIRUBIN, TOTAL 0.9 Upto 1.2 mg/dL METHOD : COLORIMETRIC DIAZO METHOD 0.4 High < 0.30 mg/dL METHOD : COLORIMETRIC DIAZO METHOD 0.4 High < 0.30 mg/dL
BILIRUBIN, DIRECT 0.4 High < 0.30 mg/dL
METHOD : COLORIMETRIC DIAZO METHOD
BILIRUBIN, INDIRECT 0.50 0.1 - 1.0 mg/dL
METHOD : CALCULATED PARAMETER
TOTAL PROTEIN 6.9 6.0 - 8.0 g/dL
METHOD : SPECTROPHOTOMETRY, BIURET
ALBUMIN 4.6 3.97 - 4.94 g/dL
METHOD : SPECTROPHOTOMETRY, BROMOCRESOL GREEN(BCG) - DYE BINDING
GLOBULIN 2.3 2.0 - 3.5 g/dL
METHOD : CALCULATED PARAMETER
ALBUMIN/GLOBULIN RATIO 2.0 1.0 - 2.1 RATIO
METHOD : CALCULATED PARAMETER
ASPARTATE AMINOTRANSFERASE (AST/SGOT) 24 < OR = 50 U/L
METHOD : SPECTROPHOTOMETRY, WITH PYRIDOXAL PHOSPHATE ACTIVATION-IFCC
ALANINE AMINOTRANSFERASE (ALT/SGPT) 28 < OR = 50 U/L
METHOD : SPECTROPHOTOMETRY, WITH PYRIDOXAL PHOSPHATE ACTIVATION-IFCC
ALKALINE PHOSPHATASE 106 40 - 129 U/L
METHOD : SPECTROPHOTOMETRY, PNPP, AMP BUFFER - IFCC
GAMMA GLUTAMYL TRANSFERASE (GGT) 17 0 - 60 U/L
METHOD : ENZYMATIC COLORIMETRIC ASSAY STANDARDIZED AGAINST IFCC / SZASZ
LACTATE DEHYDROGENASE 131 125 - 220 U/L
METHOD : SPECTROPHOTOMETRY, LACTATE TO PYRUVATE - UV-IFCC
BLOOD UREA NITROGEN (BUN), SERUM
BLOOD UREA NITROGEN 10.0 6 - 20 mg/dL
METHOD : SPECTROPHOTOMETRY, KINETIC TEST WITH UREASE AND GLUTAMATE DEHYDROGENASE

CREATININE, SERUM











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Test Report Status	<u>Final</u>	Results	Biological Referenc	e Interval Units
CREATININE		0.70	0.7 - 1.2	mg/dL
METHOD : SPECTROPHOTOM	1ETRIC, JAFFE'S KINETICS			
BUN/CREAT RATIO				
BUN/CREAT RATIO		14.29	8.0 - 15.0	
METHOD : CALCULATED PAR	RAMETER			
URIC ACID, SERUM				
URIC ACID		5.7	3.4 - 7.0	mg/dL
METHOD : SPECTROPHOTOM	1ETRY, URICASE			
TOTAL PROTEIN, SE	RUM			
TOTAL PROTEIN		6.9	6.0 - 8.0	g/dL
METHOD : SPECTROPHOTOM	1ETRY, BIURET			
ALBUMIN, SERUM				
ALBUMIN		4.6	3.97 - 4.94	g/dL
METHOD : SPECTROPHOTOM	IETRY, BROMOCRESOL GR	EEN(BCG) - DYE BINDING		
GLOBULIN				
GLOBULIN		2.3	2.0 - 3.5	g/dL
METHOD : CALCULATED PAR	RAMETER			
ELECTROLYTES (NA/	/K/CL), SERUM			
SODIUM, SERUM		137	136 - 145	mmol/L
METHOD : ISE INDIRECT				
POTASSIUM, SERUM		3.9	3.5 - 5.1	mmol/L
METHOD : ISE INDIRECT				
CHLORIDE, SERUM		102	98 - 107	mmol/L
METHOD : ISE INDIRECT				











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<u>Final</u>

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Biological Reference Interval Units

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f		

Results

Interpretation(s)

Test Report Status

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
sweating, salt-losing	RTA types I and II,	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
thiazides, diuretics, ACE inhibitors,	periodic paralysis,trauma	nephropathy, porphyria, expansion of
chlorpropamide,carbamazepine,anti	(transient).Drugs: Adrenergic agents,	extracellular fluid volume,
depressants (SSRI), antipsychotics.	diuretics.	adrenalinsufficiency,
		hyperaldosteronism, metabolic
		alkalosis. Drugs: chronic
		laxative,corticosteroids, diuretics.
Increased in: Dehydration	Increased in: Massive hemolysis,	Increased in: Renal failure, nephrotic
(excessivesweating, severe	severe tissue damage, rhabdomyolysis,	syndrome, RTA, dehydration,
vomiting or diarrhea),diabetes	acidosis, dehydration,renal failure,	overtreatment with
mellitus, diabetesinsipidus,	Addison's disease, RTA type IV,	saline, hyperparathyroidism, diabetes
hyperaldosteronism, inadequate	hyperkalemic familial periodic	insipidus, metabolic acidosis from
water intake. Drugs: steroids,	paralysis. Drugs: potassium salts,	diarrhea (Loss of HCO3-), respiratory
licorice, oral contraceptives.	potassium- sparing diuretics,NSAIDs,	alkalosis, hyperadre no corticism.
	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
	levels are normal.	(Normal serum chloride)

PHYSICAL EXAMINATION, URINE

COLOR

APPEARANCE

PALE YELLOW 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

7.0	4.7 - 7.5
1.010	1.003 - 1.035
NOT DETECTED	NOT DETECTED
NORMAL	NORMAL
	1.010 NOT DETECTED NOT DETECTED NOT DETECTED NOT DETECTED NOT DETECTED











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		NOT DETECTED
NITRITE LEUKOCYTE ESTERASE	NOT DETECTED NOT DETECTED	NOT DETECTED NOT DETECTED

LEUKOCYTE ESTERASE	NOT DETECTED	NOT DETECTED	
MICROSCOPIC EXAMINATION, URI	NE		
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
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	
METHOD : DIP STICK/MICRO SCOPY/REFLECTANCE SPECTROPHOTOMETRY			
YEAST	NOT DETECTED	NOT DETECTED	











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0.27 - 4.2

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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 cirrhosis		
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	87.3 80 - 200		
METHOD : ELECTROCHEMILUMINESC	CENCE IMMUNO ASSAY		
4	6.95 5.1 - 14.1		

2.140

METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY TSH (ULTRASENSITIVE) METHOD : ELECTROCHEMILUMINESCENCE IMMUNO ASSAY





ng/dL

µg/dL

µIU/mL





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Interpretation(s)

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

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

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

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

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

REF: 1. TIETZ Fundamentals of Clinical chemistry 2.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	BROWN	
CONSISTENCY	SEMI FORMED	
MUCUS	ABSENT	NOT
VISIBLE BLOOD	ABSENT	ABS
ADULT PARASITE	NOT DETECTED	

NOT DETECTED ABSENT











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GURUGRAM, 122001
HARYANA, INDIA
Tel : 9111591115

PATIENT NAME : NETRAPAL		PATIENT ID :	NETRM010790282
	AGE : 32 Years SEX : Male	ABHA NO :	NETRIO10790202
DRAWN : 28/03/2023 09:20	RECEIVED : 28/03/2023 09:47	REPORTED : 30/03/20	23 18:24
REFERRING DOCTOR : SELF		CLIENT PATIENT ID	:
Test Report Status <u>Final</u>	Results	Biological Reference	Interval Units
CHEMICAL EXAMINATION, STOO	L		
STOOL PH	6.0		
MICROSCOPIC EXAMINATION,S	TOOL		
PUS CELLS	NOT DETECTED		/hpf
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
CYSTS	NOT DETECTED	NOT DETECTED	
OVA	NOT DETECTED		
LARVAE	NOT DETECTED	NOT DETECTED	
TROPHOZOITES	NOT DETECTED	NOT DETECTED	
FAT	ABSENT		
VEGETABLE CELLS	ABSENT		
CHARCOT LEYDEN CRYSTALS	ABSENT		
CONCENTRATION METHOD	OVA OR CYSTS NOT SEE	EN	

TEST CANCELLED AS SPECIMEN NOT RECEIVED

REMARK

METHOD : MICROSCOPIC EXAMINATION

Comments

.











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ACCESSION NO : 0282WC004292	AGE : 32 Years SEX : Male	ABHA NO :
PATIENT NAME : NETRAPAL		PATIENT ID : NETRM010790282

Interpretation(s)

Stool routine analysis is only a screening test for disorders of gastrointentestinal tract like infection, malabsorption, etc. The following table describes the probable conditions, in which the analytes are present in stool.

PRESENCE OF	CONDITION	
Pus cells	Pus in the stool is an indication of infection	
Red Blood cells	Parasitic or bacterial infection or an inflammatory bowel condition such as ulcerative colitis	
Parasites	Infection of the digestive system. Stool examination for ova and parasite detects presence of parasitic infestation of gastrointestinal tract. Various forms of parasite that can be detected include cyst, trophozoite and larvae. One negative result does not rule out the possibility of parasitic infestation. Intermittent shedding of parasites warrants examinations of multiple specimens tested on consecutive days. Stool specimens for parasitic examination should be collected before initiation of antidiarrheal therapy or antiparasitic therapy. This test does not detect presence of opportunistic parasites like Cyclospora, Cryptosporidia and Isospora species. Examination of Ova and Parasite has been carried out by direct and concentration techniques.	
Mucus	Mucus is a protective layer that lubricates, protects& reduces damage due to bacteria or viruses.	
Charcot-Leyden crystal	Parasitic diseases.	
Ova & cyst	Ova & cyst indicate parasitic infestation of intestine.	
Frank blood	Bleeding in the rectum or colon.	
Occult blood	Occult blood indicates upper GI bleeding.	
Macrophages	Macrophages in stool are an indication of infection as they are protective cells.	
Epithelial cells	Epithelial cells that normally line the body surface and internal organs show up in stool when there is inflammation or infection.	
Fat	Increased fat in stool maybe seen in conditions like diarrhoea or malabsorption.	
pH	Normal stool pH is slightly acidic to neutral. Breast-fed babies generally have an acidic stool.	

ADDITIONAL STOOL TESTS :

- 1. <u>Stool Culture</u>:- This test is done to find cause of GI infection, make decision about best treatment for GI infection & to find out if treatment for GI infection worked.
- 2. <u>Fecal Calprotectin</u>: It is a marker of intestinal inflammation. This test is done to differentiate Inflammatory Bowel Disease (IBD) from Irritable Bowel Syndrome (IBS).
- 3. Fecal Occult Blood Test(FOBT): This test is done to screen for colon cancer & to evaluate possible cause of unexplained anaemia.
- 4. <u>Clostridium Difficile Toxin Assay</u>: This test is strongly recommended in healthcare associated bloody or waterydiarrhoea, due to overuse of broad spectrum antibiotics which alter the normal GI flora.
- Biofire (Film Array) GI PANEL: In patients of Diarrhoea, Dysentry, Rice watery Stool, FDA approved, Biofire Film Array Test,(Real Time Multiplex PCR) is strongly recommended as it identifies organisms, bacteria,fungi,virus, parasite and other opportunistic pathogens, Vibrio cholera infections only in 3 hours. Sensitivity 96% & Specificity 99%.
- 6. <u>Rota Virus Immunoassay</u>: This test is recommended in severe gastroenteritis in infants & children associated with watery diarrhoea, vomitting& abdominal cramps. Adults are also affected. It is highly contagious in nature.











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PATIENT NAME : NETRAPAL		PATIENT ID : NETRM010790282

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD		
ABO GROUP	В	
METHOD : HEMAGGLUTINATION REACTION ON SOLID PHASE		
RH TYPE	RH+	
METHOD : HEMAGGLUTINATION REACTION ON SOLID PHASE		
XRAY-CHEST		
»»	BOTH THE LUNG FIELDS ARE CLEAR	
»»	BOTH THE COSTOPHRENIC AND CARDIOPHRENIC ANGLES A	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	 ECHO DONE, REPORT - Normal sized cardiac chambers and normal valve No RWMA Normal LV systolic function LVEF ~ 60 % Normal LV diastolic function, E>A No Clot/Vegetation/Pericardial Effusion IVS/IAS intact, no flow seen across. 	res
ECG		
ECG	WITHIN NORMAL LIMITS	
MEDICAL HISTORY		
RELEVANT PRESENT HISTORY	NOT SIGNIFICANT	
RELEVANT PAST HISTORY	NOT SIGNIFICANT	
RELEVANT PERSONAL HISTORY	OCCASIONAL SMOKING AND ALCOHOL	
RELEVANT FAMILY HISTORY	NOT SIGNIFICANT	
OCCUPATIONAL HISTORY	SERVICE	
HISTORY OF MEDICATIONS	NOT SIGNIFICANT	
ANTHROPOMETRIC DATA & BMI		
HEIGHT IN METERS	1.67	mts
WEIGHT IN KGS.	68	Kgs











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REFERRING DOCTOR : SELF		CLIENT PATIENT ID :
Test Report Status <u>Final</u>	Results	Biological Reference Interval Units
	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
	NORMAL	
MENTAL / EMOTIONAL STATE	NORMAL	
PHYSICAL ATTITUDE GENERAL APPEARANCE / NUTRITIONAL STATUS		
BUILT / SKELETAL FRAMEWORK	HEALTHY AVERAGE	
FACIAL APPEARANCE	NORMAL	
SKIN	NORMAL	
UPPER LIMB	NORMAL	
LOWER LIMB	NORMAL	
NECK	NORMAL	
NECK LYMPHATICS / SALIVARY GLANDS	NOT ENLARGED OR TENDI	ER
THYROID GLAND	NOT ENLARGED	
CAROTID PULSATION	NORMAL	
TEMPERATURE	NORMAL	
PULSE	80 / MIN REGULAR, ALL P	PERIPHERAL PULSES WELL FELT
RESPIRATORY RATE	NORMAL	
CARDIOVASCULAR SYSTEM		
BP PERICARDIUM	130/68 MMHG (SUPINE) NORMAL	mm/Hg
APEX BEAT	NORMAL	
HEART SOUNDS	S1, S2 HEARD NORMALLY	, ,
MURMURS	ABSENT	
RESPIRATORY SYSTEM		
SIZE AND SHAPE OF CHEST	NORMAL	
MOVEMENTS OF CHEST	SYMMETRICAL	
BREATH SOUNDS INTENSITY	NORMAL	
BREATH SOUNDS QUALITY	VESICULAR (NORMAL)	
ADDED SOUNDS	ABSENT	
PER ABDOMEN		
APPEARANCE	NORMAL	











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PATIENT NAME : NETRAPAL	PATIENT ID : NETRM010790282
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REFERRING DOCTOR : SELF	CLIENT PATIENT ID:

Test Report Status <u>Final</u>	Results	Biological Reference Interval	Units
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 WITHOUT GLASSES	6/6		
DISTANT VISION LEFT EYE WITHOUT GLASSES	6/6		
NEAR VISION RIGHT EYE WITHOUT GLASSES	N/6		
NEAR VISION LEFT EYE WITHOUT GLASSES	N/6		
COLOUR VISION	17/17		
SUMMARY			
REMARKS / RECOMMENDATIONS			
	ADVISED		
	FOLLOW UP WITH PHY	'SICIAN	
	WITH ALL 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)

(<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

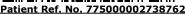
(413) In patients with mile depict analysis include to be interpreted in the with sinited corrected in the sopposition and sopposition to be a challes of beta thalassaemia trait. WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change 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 <

(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 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









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

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.

- 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 :

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. Tron deficiency anemia is reported to increase test results. Hypertriglyceridemia, uperbilirubinemia, 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 patform (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-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



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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, 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.

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, mainutrition 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 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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PATIENT NAME : NETRAPAL		PATIENT ID : NETRM010790282
ACCESSION NO : 0282WC004292	AGE : 32 Years SEX : Male	ABHA NO :
DRAWN : 28/03/2023 09:20	RECEIVED : 28/03/2023 09:47	REPORTED : 30/03/2023 18:24
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Test Report Status Final

Results

Units

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. Deblina Naithani Consultant Physician

CONDITIONS OF LABORATORY TESTING & REPORTING

 It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
 All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
 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.

Test results cannot be used for Medico legal purposes.
 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



