

Toll Free No. 1800-313-7878

Laboratory Test Report

Patient Name

: Mrs. ANJUM AZAM

Age/Gender UHID/MR No : 54 YRS /F

Visit ID

: APRJ.0000047935

Ref Doctor

: MPRJ48282 : Dr.SELF

Client Name

: ROZY PATHOLOGY

Specimen Drawn ON

: 16/Jul/2024 10:29AM

Specimen Received ON: 16/Jul/2024 12:13PM

Report Date

: 16/Jul/2024 12:43PM

Client Code

: UP396MH

Barcode No

: B7223600

Ref Customer

: SELF

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	3443	INIA CARE IV		,
Test Name	Result	Unit	Bio. Ref. Range	Method

R.B.C	2,64	Millions/cumm	4.5-5.5	Impedance variation
Haemoglobin	8.2	g/dl	12.0-15.0	Spectrophotometry
Packed Cell Volume	24.30	%	40.0-50.0	Analogical Integration
MCV	92.05	fL	80-100	
МСН	31.06	pg	27.0-32.0	Calculated
MCHC	33.74	g/dL	27.0-48.0	Calculated
RDW-CV	12.3	%	11.5-14.0	Calculated
Platelet Count	266	x1000/uL	150-450	Impedance Variation
Total WBC Count	11200	/cumm	4000-10000	Impedance Variation
MPV	9.70	%	9.1-11.9	Calculated
PCT	0.26	%	0.18-0.39	Calculated
PDW	14.90	%	9.0-15.0	Calculated
Differential Leucocyte Count				
Neutrophil	70	95	40.0-80.0	flow cytometry/manual
Lymphocyte	20	35	20.0-40.0	flow cytometry/manual
Monocytes	04	%	2-10	flow cytometry/manual
Eosinophils	06	%	01-06	Flow cytometry/manual
Basophils	00	%	0-1	Flow cytometry/manual
Absolute Neutrophils	7.84	1000/μL	2.00-7.00	
Absolute Lymphocytes	2.24	1000/μL	1.00-3.00	
Absolute Monocytes	0.45	1000/μL	0.20-1.00	
Absolute Eosinophils	0.67	1000/μL	0.02-0.50	
Neutrophil-Lymphocyte Ratio	3.50			Calculated
Lymphocyte-Monocyte Ratio	5			Calculated
Platelet-Lymphocyte Ratio	13			Calculated

This report has been validated by:

DR. AKANSHA SINGH

M.B.B.S , M.D. (PATH)

DR. ANIL GUPTA M.B.B.S , M.D. (PATH) DR. PAWAN KUMAR Phd. BIOCHEMISTRY



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DEPARTMENT OF BIOCHEMISTRY						
SWASTHYA CARE IV						
Test Name Result Unit Bio. Ref. Range Method						

GLUCOSE FASTING

Sample Type: Sod.Fluoride - F

Glucose Fasting

mg/dl

70.0 - 110.0

GOD-POD

Interpretation (In accordance with the American diabetes association guidelines):

A fasting plasma glucose level below 110 mg/dL is considered normal.

A fasting plasma glucose level between 100-126 mg/dL is considered as glucose intolerant or pre diabetic. A fasting and post-prandial blood sugar test (after consumption of 75 gm of glucose) is recommended for all such patients.

A fasting plasma glucose level of above 126 mg/dL is highly suggestive of a diabetic state. A repeat fasting test is strongly recommended for all such patients. A fasting plasma glucose level in excess of 126 mg/dL on both the occasions is confirmatory of a diabetic state.

NM-BAPTA 8.6-10.2 mg/dL 9.20 Calcium

DESCRIPTION

About 50% of the calcium present in circulation is free (also known as ionized calcium); 40% of serum calcium is bound to proteins, especially albumin (80%) and, secondary, to globulins (20%); and about 10% exists as various small diffusible inorganic and organic anions (eg, bicarbonate, lactate, citrate). Heart and skeletal muscle contractility are affected by calcium ions; in addition, calcium ions are vital to nervous system function and are associated with blood clotting and bone mineralization. The concentration of serum calcium is tightly regulated by parathyroid hormone (PTH) and 1,25-hydroxy vitamin D.

INTERPRETATION-

Serum calcium is decreased (hypocalcemia) in the following conditions:

Hypoparathyroidism, Vitamin D deficiency, Chronic renal diseases, Pseudohypoparathyroidism,

Magnesium deficiency (PTH glandular release is magnesium-dependent), Hyperphosphatemia,

Massive transfusion, Hypoalbuminemia, Severe calcium dietary deficiency and Severe pancreatitis (calcium saponification)

Serum calcium is increased(Hypercalcemia) in the following conditions:

Hyperparathyroidism ,Vitamin D excess, Milk-alkali syndrome, Multiple myeloma, owing to bone lesions, Paget disease of bone with prolonged immobilization, Sarcoidosis, Familial hypocalciuria hypercalcemia, Vitamin A intoxication, Thyrotoxicosis and Addison disease

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DEPARTMENT OF BIOCHEMISTRY

SWA	STHYA CARE IV		
Result	Unit	Blo. Ref. Range	Method

EGFR (ESTIMATED GLOMERULAR FILTRA	ATION RATE)			
Creatinine	10.89	mg/dL	0.60-1.20	Spectro-photometry
Blood Urea Nitrogen (BUN)	43.92	mg/dl	6.00-20.0	Spectro-photometry
Albumin (Serum) Gfr By Mdrd	4.15	g/dL	3.5-5.5	Bromo Cresol Green (BCG)
on by mara	3.91	mL/min/1.73 m2	The same of the sa	Spectrophotometric - Calculated

Please correlate clinically.

COMMENT-The Kidney Disease Improving Global Outcomes (KDIGO) guideline defines CKD by the presence of glomerular filtration rate (GFR) <60 mL/min/1.73m2 for >3 months and/or evidence of kidney damage (eg, structural abnormalities, histologic abnormalities, albuminuria, urinary sediment abnormalities, renal tubular disorders, and/or history of kidney transplantation) for >3months.2 Thus, monitoring should include tests for GFR, albuminuria, and urine sediment. **CLINICAL USE-**

Detect chronic kidney disease (CKD) in adults.

Monitor CKD therapy and/or progression in adults.

Interpretation of eGFR Values		
eGFR (mL/min/1.73m ²)	Interpretation	
90	Normal	
60-89	Mild decrease	
45-59	Mild to moderate decrease	
30-44	Moderate to severe decrease	
15-29	Severe decrease	
<15	Kidney failure	

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DEPARTMENT OF BIOCHEMISTRY					
SWASTHYA CARE IV					
Test Name Result Unit Bio. Ref. Range Method					

Sample Type : SERUM				
Urea	94	mg/dl	13.0-43.0	Spectro-photometry
Creatinine	10.79	mg/dL	0.60-1.20	Spectro-photometry
Uric Acid	3.37	mg/dl	2.30-6.60	Spectro-photometry
Sodium (NA+)	140.00	mmol/L	135.0-145.0	Ion Selective Electrode
Potassium (K+)	4.99	mmol/L	3.50-5.50	Ion Selective Electrode
Chloride	109.00	mmol/L	98-109	Ion Selective Electrode

Result rechecked, kindly correlate clinically

Interpretation:- Kidney blood tests, or Kidney function tests, are used to detect and diagnose disease of the Kidney.

The higher the blood levels of urea and creatinine, the less well the kidneys are working.

The level of creatinine is usually used as a marker as to the severity of kidney failure. (Creatinine in itself is not harmful, but a high level indicates that the kidneys are not working properly. So, many other waste; voducts will not be cleared out of the bloodstream.) You normally need treatment with dialysis if the level of creatinine goes higher than a certain value.

Dehydration can also be a come for increases in urea level.

Before and after starting treatment with certain medicines. Some medicines occasionally cause kidney damage (Nephrotoxic Drug) as a side-effect. Therefore, kidney function is often checked before and after starting treatment with certain medicines.

*** End Of Report ***

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DEPARTMENT			

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el. Range

Erythrocyte Sedimentation Rate (ESR)

98

men/h

0-20

WESTERFERM

Please correlate clinically,

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Plot No. 10, Avtar Enclave, Opp. Pillar No. 227, Rohtak Road, Paschim Vihar, New Delhi - 110063 Email: info@crldiagnostics.com | Website: www.crldiagnostics.com | Tollfree No.: 1800-313-7878





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DEPARTMENT OF BIOCHEMISTRY

SWA	STHYA	CARE IV

SWASTHYA CARE IV					
Test Name	Result	Unit	Bio. Ref. Range	Method	

LIVER FUNCTION TEST (LFT)-EXTENDED				
Sample Type : SERUM				
Bilirubin Total	0.65	mg/dl	<1.1	Diazotized Sulfanilic
Bilirubin Direct	0.18	mg/dl	0-0.3	Diazotized Sulfanilic
Bilirubin Indirect	0.47	mg/dl	0.30-1.00	Calculated
SGOT (AST)	13.4	Ü/L	<31.0	IFCC without pyridoxal phosphate
SGPT (ALT)	11.8	U/L	<33.0	IFCC without pyridoxal phosphate
Alkaline Phosphatase (ALP)	157.4	U/L	35-104	Spectrophotometry
Gamma Glutamyl Transferase (GGT)	19.6	U/L	05-40	L-Gamma-glutamyl-3- carboxy-4-nitroanilide Substrate
Protein Total	7.81	g/dL	6.6-8.7	Bluret
Albumin (Serum)	4.15	g/dL	3.5-5.5	Bromo Cresol Green (BCG)
Globulin	3.66	ē/dL	2.50-3.50	Calculated
A/G Ratio	1.13		1.5-2.5	Calculated

Interpretation:- Liver blood tests, or liver function tests, are used to detect and diagnose disease or inflammation of the liver. Elevated aminotransferase (ALT, AST) levels are measured as well as alkaline phosphatase, albumin, and bilirubin. Some diseases that cause abnormal levels of ALT and AST include hepatitis A, B, and C, cirrhosis, iron overload, and Tylenol liver damage. Medications also cause elevated liver enzymes. There are less common conditions and diseases that also cause elevated liver enzyme levels .: Liver blood tests, or liver function tests, are used to detect and diagnose disease or inflammation of the liver. Elevated aminotransferase (ALT, AST) levels are measured as well as alkaline phosphatase, albumin, and bilirubin. Some diseases that cause abnormal levels of ALT and AST include hepatitis A, B, and C, cirrhosis, iron overload, and Tylenol liver damage. Medications also cause elevated liver enzymes. There are less common conditions and diseases that also cause elevated liver enzyme levels.

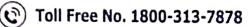
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DEPARTMENT OF BIOCHEMISTRY					
SWASTHYA CARE IV					
Test Name Result Unit Bio. Ref. Range Method					

LIPID PROFILE BASIC				
Sample Type: SERUM				
Total Cholesterol	168.7	mg/dL	<200.00 mg/dL	Enzymatic Colorimetric
Triglyceride	149.6	mg/dL	0.0-150 :Normal 151-199:Border Line >=200 :High 200.0-499.0 High ~> 500 Very High	Enzymatic Colorimetric
HDL Cholesterol	31.5	mg/dL	40-60	Direct (PVS/PEGME precipitation & Trinder reaction)
Non HDL Cholesterol	137.20	mg/dL	< 130 mg/dL	Calculated
VLDL Cholesterol	29.9	mg/dL	2.00-30.00	Calculated
LDL Cholesterol	107.28	mg/dL	0-130 :Normal~131- 155:Borderline~>=160 :High	Direct (PVS/PEGME precipitation & Trinder reaction)
Cholesterol/HDL Ratio	5.36	Ratio	<4.00	Calculated
LDL / HDL Cholestrol Ratio	3.41	Rissia	<3.50	Calculated
HDL/LDL Cholesterol Ratio	0.29	Ratio	<3.50	Calculated

Total Cholesterol (mg/dL) <200 – Desirable

200-239 -Borderline high

<240 - High

HDL Cholesterol (mg/dL), <40 - Low

>60 - High

LDL Cholesterol (mg/dL) <100 Optimal

[Primary Target of Therapy] 100-129 Near optimal /above optimal, 130-159 Borderline high, 160-189 High, >190 Very high.Serum Triglycerides (mg/dL) <150 Normal, 150-199 Borderline high, 200-499 High, >500 Very high

NCEP recommends lowering of LDL Cholesterol as the primary therapeutic target with lipid lowering agents, however, if triglycerides remain >200 mg/dL after LDL goal is Reached, seti secondary goal for non-HDL cholesterol (total minus HDL) 30 mg/dL higher than LDL goal.

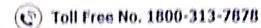
Risk Category	LDL Goal (mg/dL)	Non-HDL Goal (mg/dL)
CHD and CHD Risk Equivalent	<100	<130
(10-year risk for CHD>20%)		
Multiple (2+) Risk Factors and	<130	<160
10-year risk <20%		
0-1 Risk Factor	<160	<190

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Test Name	Result	Unit	Blo. Ref. Range	Method		
SWASTHYA CARE IV						
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	the property of the party of th	Married Company of the Company of th	the state of the s	PRODUCE SERVICE SERVIC		

Test Name	Result	Unit	Blo. Ref. Range	Method			
THYROID PROFILE							
Sample Type : SERUM							
Triiodothyronine Total (T3)	0.67	l ng/mt	0.81-1.81	Chemiluminescence			

Thyroxine Total (T4)	5.2	ug/dL	4.6-10.5	Chemiluminescence immunessay (CLIA)	
TSH (4th Generation)	5.928	ulU/mL		Chemiluminescence Immuneassay (CLIA)	

PREGNANCY	REFERENCE RANGE for TSH IN ulU/mL (As per American Thyroid Association.)
	0.10-2.50 uIU/mL
2nd Trimester	0.20-3.00 uIU/mL
3rd Trimester	0.30-3.00 uIU/mL

INTERPRETATION-

- 1. Primary hyperthyroidism is accompanied by elevated serum T3 & T4 values along with depressed T5H level.
- Primary hypothyroidism is accompanied by depressed serum T3 and T4 values & elevated serum T5H levels.
- Normal T4 levels accompanied by high T3 levels and low T8H are seen in patients with T3 thyrotoxicosis.
- 4. Normal or low T3 & high T4 levels indicate T4 thyrotoxicosis (problem is conversion of T4 to T3)
- 5. Normal T3 & T4 along with low TSH indicate mild / subclinical HYPERTHYROIDISM :
- Normal T3 & low T4 along with high TSH is seen in HYPOTHYROIDISM.
- 7. Normal T3 & T4 levels with high TSH indicate Mild / Subclinical HYPOTHYROIDISM.
- 8. Slightly elevated T3 levels may be found in pregnancy and in estrogen therapy while depressed levels may be encountered in severe illness, malnutrition, renal failure and during therapy with drugs like propanolol.
- 9. Although elevated TSH levels are nearly always indicative of primary hypothroidism , rarely they can result from TSH secreting pituitary tumours (seconday hyperthyroidism)
- *TSH IS DONE BY ULTRASENSITIVE 4th GENERATION CHEMIFLEX ASSAY*

Assay results should be interpreted in context to the clinical condition and associated results of other investigations. Previous treatment with corticosteroid therapy may result in lower TSH levels while thyroid hormone levels are normal. Results are invalidated if the client has undergone a radionuclide scan within 7-14 days before the test. Abnormal thyroid test findings often found in critically ill clients should be repeated after the critical nature of the condition is resolved. The production, circulation, and disintegration of thyroid hormones are altered throughout the stages of pregnancy.

NOTE-TSE levels are subject to coveredian variation reaching peak levels between 2-44M and ninimum between 0-10 PM. The variation is the order of 30% hence time of the day has influence in the measures seem TSH concentration. Door and time of drug intake also influence the test result, Reference tangets are from Tvits fundamental of vinical chemistry. Ith od.

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DEPARTMENT OF CLINICAL PATHOLOGY

SWASTHYA CARE IV							
Test Name	Result	Unit	Bio. Ref. Range	Method			
URINE EXAMINATION ROUTINE							
Gross Examination(Physical Examination		-					

iross Examination(Physical Examina	ition)			
Colour	PALE YELLOW		Colourless	
Appearance	SLIGHTLY TURBID		Clear	
Chemical Examination				
Ph	5.0		4.6-8.0	Double Indicators Test
Specific Gravity	1.020		1.005-1.030	Refractometric
Urine Protein.	++		NEGATIVE	Protein Error of Indicato
Urine Glucose.	NEGATIVE	427	NEGATIVE	Oxidase Peroxidase Reaction
Ketone	NEGATIVE	15	NEGATIVE	Sodium Nitropruside
Nitrite	PRESENT		NEGATIVE	Diazotisation Reaction
Blood	NEGATIVE		NEGATIVE	Peroxidase Reaction
Urobilinogen	NORMAL		NORMAL	Modified Ehrlich Reaction
Urine BiliruLin	NIL	of the same	NEGATIVE	Diazotisation
Leukocyte	NEGATIVE	- 1/5	NEGATIVE	Diazonization Reaction
Microscopic Examination(Light N	Aicroscopy)			
R.B.C.	NIL	/HPF	NIL	Light Microscopy
Pus Cells	45-50	/HPF	0-3	
Epithelial Cells	2-4	/HPF	0-3	
Casts	NIL		NIL	
Crystals	NIL		NIL	
Bacteria	PRESENT		NIL	
Budding yeast Cells	NIL		NIL	

Note: Urine Culture and Sensitivity is advised in case Pus cells are 10 or above with Nitrite positive.

*** End Of Report ***

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