

Name : DUMMY Lab No. : 439854467

Ref By : U

Collected : 14/5/2023 11:03:00AM

A/c Status : F

Collected at : LPL-ROHINI (NATIONAL REFERENCE LAB)

National Reference laboratory, Block E, Sector

18, ROHINI DELHI 110085 Age : 30 Years Gender : Male

Reported : 16/5/2023 1:36:25PM

Report Status : Final

Processed at : LPL-NATIONAL REFERENCE LAB

National Reference laboratory, Block E, Sector 18, Rohini, New Delhi -110085



Test Name Results Units Bio. Ref. Interval

SwasthFit Super 4

15.00	g/dL	13.00 - 17.00
45.00	%	40.00 - 50.00
4.50	mill/mm3	4.50 - 5.50
90.00	fL	83.00 - 101.00
32.00	pg	27.00 - 32.00
33.00	g/dL	31.50 - 34.50
14.00	%	11.60 - 14.00
8.00	thou/mm3	4.00 - 10.00
60.00	0/	40.00.00.00
		40.00 - 80.00
		20.00 - 40.00
		2.00 - 10.00
		1.00 - 6.00 <2.00
0.00	70	<2.00
4.80	thou/mm3	2.00 - 7.00
2.40	thou/mm3	1.00 - 3.00
0.40	thou/mm3	0.20 - 1.00
0.40	thou/mm3	0.02 - 0.50
0.00	thou/mm3	0.02 - 0.10
200	thou/mm3	150.00 - 410.0
10.0	fL	6.5 - 12.0
	4.50 90.00 32.00 33.00 14.00 8.00 60.00 30.00 5.00 5.00 0.00 4.80 2.40 0.40 0.40 0.40 0.00	4.50 mill/mm3 90.00 fL 32.00 pg 33.00 g/dL 14.00 % 8.00 thou/mm3 60.00 % 5.00 % 5.00 % 0.00 % 4.80 thou/mm3 2.40 thou/mm3 0.40 thou/mm3 0.40 thou/mm3 1.40 thou/mm3 1.40 thou/mm3 1.40 thou/mm3



Page 1 of 10



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Test Report

Test Name Results Units Bio. Ref. Interval

Note

1. As per the recommendation of International council for Standardization in Hematology, the differential leucocyte counts are additionally being reported as absolute numbers of each cell in per unit volume of blood

2. Test conducted on EDTA whole blood



Page 2 of 10



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Bio. Ref. Interval

Test Report

Results

rest name	Results	Units	Bio. Rei. Ilitervai
LIVER & KIDNEY PANEL, SERUM			
Creatinine (Modified Jaffe,Kinetic)	0.90	mg/dL	0.70 - 1.30
GFR Estimated (CKD EPI Equation 2021)	118	mL/min/1.73m2	>59
GFR Category (KDIGO Guideline 2012)	G1		
Urea (Urease UV)	20.00	mg/dL	13.00 - 43.00
Urea Nitrogen Blood (Calculated)	9.34	mg/dL	6.00 - 20.00
BUN/Creatinine Ratio (Calculated)	10		
Uric Acid (Uricase)	5.00	mg/dL	3.50 - 7.20
AST (SGOT) (IFCC without P5P)	11.0	U/L	15.00 - 40.00
ALT (SGPT) (IFCC without P5P)	21.0	U/L	10.00 - 49.00
GGTP (IFCC)	11.0	U/L	0 - 73
Alkaline Phosphatase (ALP) (IFCC-AMP)	150.00	U/L	30.00 - 120.00
Bilirubin Total (Oxidation)	0.20	mg/dL	0.30 - 1.20
Bilirubin Direct (Oxidation)	0.10	mg/dL	<0.3
Bilirubin Indirect (Calculated)	0.10	mg/dL	<1.10
Total Protein (Biuret)	7.00	g/dL	5.70 - 8.20
Albumin (BCG)	4.00	g/dL	3.20 - 4.80
A : G Ratio (Calculated)	1.33		0.90 - 2.00
Globulin(Calculated)	3.00	gm/dL	2.0 - 3.5
Calcium, Total (Arsenazo III)	8.00	mg/dL	8.70 - 10.40
			Page 3 of 10



Page 3 of 10



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Test Name	Results	Units	Bio. Ref. Interval
Phosphorus (Molybdate UV)	4.00	mg/dL	2.40 - 5.10
Sodium (Indirect ISE)	140.00	mEq/L	136.00 - 145.00
Potassium (Indirect ISE)	5.00	mEq/L	3.50 - 5.10
Chloride (Indirect ISE)	101.00	mEq/L	98.00 - 107.00

Note

- Estimated GFR (eGFR) calculated using the 2021 CKD-EPI creatinine equation and GFR Category reported as per KDIGO guideline 2012.
- 2. eGFR category G1 or G2 does not fulfil the criteria for CKD, in the absence of evidence of kidney damage
- 3. The BUN-to-creatinine ratio is used to differentiate prerenal and postrenal azotemia from renal azotemia. Because of considerable variability, it should be used only as a rough guide. Normally, the BUN/creatinine ratio is about 10:1

LIPID SCREEN, SERUM			
Cholesterol, Total (CHO-POD)	105.00	mg/dL	<200.00
Triglycerides (GPO-POD)	130.00	mg/dL	<150.00
HDL Cholesterol (Enzymatic Immunoinhibition)	46.00	mg/dL	>40.00
LDL Cholesterol, Calculated (Calculated)	33.00	mg/dL	<100.00
VLDL Cholesterol,Calculated (Calculated)	26.00	mg/dL	<30.00
Non-HDL Cholesterol (Calculated)	59	mg/dL	<130

Note

- 1. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL& LDL Cholesterol.
- 2. Friedewald equation to calculate LDL cholesterol is most accurate when Triglyceride level is < 400 mg/dL. Measurement of Direct LDL cholesterol is recommended when Triglyceride level is > 400 mg/dL
- 3. Lipid Association of India (LAI) recommends screening of all adults above the age of 20 years for



Page 4 of 10



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Test Report

Test Name Results Units Bio. Ref. Interval
Atherosclerotic Cardiovascular Disease (ASCVD) risk factors especially lipid profile. This should be
done earlier if there is family history of premature heart disease, dyslipidemia, obesity or other risk

- 4. Indians tend to have higher triglyceride levels & Lower HDL cholesterol combined with small dense LDL particles, a pattern known as atherogenic dyslipidemia
- 5. Non HDL Cholesterol comprises the cholesterol carried by all atherogenic particles, including LDL, IDL, VLDL & VLDL remnants, Chylomicron remnants & Lp(a)
- 6. LAI recommends LDL cholesterol as primary target and Non HDL cholesterol as co-primary treatment target
- 7. Apolipoprotein B is an, secondary lipid target for treatment once LDL & Non HDL goals have been achieved
- 8. Additional testing for Apolipoprotein B, hsCRP, Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement

Treatment Goals as per Lipid Association of India 2020

RISK CATEGORY	TREATMENT GOAL CONSIDER THERAPY		SIDER THERAPY	
CATEGORT	LDL CHOLESTEROL (LDL-C)(mg/dL)	NON HDL CHLOESTEROL (NON HDL-C) (mg/dL)		NON HDL CHLOESTEROL (NON HDL-C) (mg/dL)
Extreme Risk Group Category A	<50 (Optional goal ≤30)		≥50	≥80
Extreme Risk Group Category A	≤30	≤60	>30	>60
Very High	<50	<80	≥50	≥80
High	<70	<100	≥70	≥100
Moderate	<100	<130	≥100	≥130
Low	<100	<130	≥130*	≥160*

^{*}In low risk patient, consider therapy after an initial non-pharmacological intervention for at least 3 months



Page 5 of 10



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Test Report

Test Name	Results	Units	Bio. Ref. Interval
HbA1c (GLYCOSYLATED HEMOGLOBIN), BLOOD (HPLC, NGSP certified)			
HbA1c	5.3	%	4.00 - 5.60
Estimated average glucose (eAG)	105	mg/dL	

Interpretation

HbA1c result is suggestive of non diabetic adults (>=18 years)/ well controlled Diabetes in a known Diabetic Interpretation as per American Diabetes Association (ADA) Guidelines

	Reference Group	Non diabetic adults >=18 years	At risk (Prediabetes)	Diagnosing Diabetes	Therapeutic goals for glycemic control
i	HbA1c in %	4.0-5.6	5.7-6.4	>= 6.5	 <7.0

Note: Presence of Hemoglobin variants and/or conditions that affect red cell turnover must be considered, particularly when the HbA1C result does not correlate with the patient's blood glucose levels.

!	TORS THAT INTERFERE WITH HbA1C ASUREMENT	FACTORS THAT AFFECT INTERPRETATION OF HBA1C RESULTS
hen mod (e. wit	moglobin variants,elevated fetal moglobin (HbF) and chemically dified derivatives of hemoglobin g. carbamylated Hb in patients the renal failure) can affect the curacy of HbA1c measurements	Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g., recovery from acute blood loss, hemolytic anemia, HbSS, HbCC, and HbSC) will falsely lower HbAlc test results regardless of the assay method used.Iron deficiency anemia is associated with higher HbAlc





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Test Report

Test Name	Results	Units	Bio. Ref. Interval
GLUCOSE, FASTING (F), PLASMA (GOD POD)			
Glucose Fasting	90.00	mg/dL	70 - 100

THYROID PROFILE,TOTAL, SERUM (CLIA)			
T3, Total	2.00	ng/mL	0.60 - 1.81
T4, Total	4.00	μg/dL	5.01 - 12.45
TSH	4.00	μIU/mL	0.550 - 4.780

Note

- 1. TSH levels are subject to circadian variation, reaching peak levels between 2 4.a.m. and at a minimum between 6-10 pm . The variation is of the order of 50% . hence time of the day has influence on the measured serum TSH concentrations.
- 2. Alteration in concentration of Thyroid hormone binding protein can profoundly affect Total T3 and/or Total T4 levels especially in pregnancy and in patients on steroid therapy.
- 3. Unbound fraction (Free,T4 /Free,T3) of thyroid hormone is biologically active form and correlate more closely with clinical status of the patient than total T4/T3 concentration
- 4. Values <0.03 uIU/mL need to be clinically correlated due to presence of a rare TSH variant in some individuals



Page 7 of 10



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Test Name	Results	Units	Bio. Ref. Interval
VITAMIN B12; CYANOCOBALAMIN, SERUM	280.00	pg/mL	211.00 - 911.00
(CLIA)			

Notes

- 1. Interpretation of the result should be considered in relation to clinical circumstances.
- It is recommended to consider supplementary testing with plasma Methylmalonic acid (MMA) or
 plasma homocysteine levels to determine biochemical cobalamin deficiency in presence of clinical
 suspicion of deficiency but indeterminate levels. Homocysteine levels are more sensitive but MMA is
 more specific
- 3. False increase in Vitamin B12 levels may be observed in patients with intrinsic factor blocking antibodies, MMA measurement should be considered in such patients
- 4. The concentration of Vitamin B12 obtained with different assay methods cannot be used interchangeably due to differences in assay methods and reagent specificity

VITAMIN D, 25 - HYDROXY, SERUM	85.00	nmol/L	75.00 - 250.00
(CLIA)			

Interpretation

LEVEL 	REFERENCE RANGE	COMMENTS
Deficient	< 50 	High risk for developing bone disease
Insufficient 	 50-74 	Vitamin D concentration which normalizes Parathyroid hormone concentration
Sufficient		Optimal concentration for maximal health benefit
Potential intoxication	 >250 	High risk for toxic effects

Note

- The assay measures both D2 (Ergocalciferol) and D3 (Cholecalciferol) metabolites of vitamin D.
- 25 (OH)D is influenced by sunlight, latitude, skin pigmentation, sunscreen use and hepatic function.
- Optimal calcium absorption requires vitamin D 25 (OH) levels exceeding 75 nmol/L.



Page 8 of 10



: DUMMY Name Lab No. ; 439854467

Ref Bv

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: Final Report Status

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Test Report

Units Bio. Ref. Interval **Test Name** Results

- It shows seasonal variation, with values being 40-50% lower in winter than in summer.
- Levels vary with age and are increased in pregnancy.
- A new test Vitamin D, Ultrasensitive by LC-MS/MS is also available

Comments

Vitamin D promotes absorption of calcium and phosphorus and mineralization of bones and teeth. Deficiency in children causes Rickets and in adults leads to Osteomalacia. It can also lead to Hypocalcemia and Tetany. Vitamin D status is best determined by measurement of 25 hydroxy vitamin D, as it is the major circulating form and has longer half life (2-3 weeks) than 1,25 Dihydroxy vitamin D (5-8 hrs).

Decreased Levels

- Inadequate exposure to sunlight
- Dietary deficiency
- Vitamin D malabsorption
- Severe Hepatocellular disease
- Drugs like Anticonvulsants
- Nephrotic syndrome

Increased levels

Vitamin D intoxication



Page 9 of 10