Name	: **Mr. ANIRUDDHA CHAKRABARTI**		**Age**	: **48 Years**	
Lab No.	: **436569422**		**Gender**	: **Male**	
Ref By	: **SELF**		**Reported**	: **13/4/2023 3:08:28PM**	
Collected	: **13/4/2023 9:01:00AM**		**Report Status**	: **Final**	
A/c Status	: **P**				
Collected at	: **HOME COLLECTION KRL (KOLKATA REFERENCE LAB) Premises No - 031-0199 Plot No - CB 31/1 Street 199 Action Area 1C, KOLKATA**		**Processed at**	: **LPL-KOLKATA REFERENCE LAB DR LAL PATH LABS LTD Premises No-031-0199 Plot No-CB 31/1 Street 199 Action Area 1C,Newtown Kolkata-700156**	

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Test Report

SwasthFit Super 4

Test Name	Results	Units	Bio. Ref. Interval
COMPLETE BLOOD COUNT;CBC (Electrical Impedence & VCS)			
Hemoglobin	13.40	g/dL	13.00 - 17.00
Packed Cell Volume (PCV)	41.30	%	40.00 - 50.00
RBC Count	4.53	mill/mm3	4.50 - 5.50
MCV	91.10	fL	83.00 - 101.00
MCH	29.50	pg	27.00 - 32.00
MCHC	32.40	g/dL	31.50 - 34.50
Red Cell Distribution Width (RDW)	**14.80**	%	11.60 - 14.00
Total Leukocyte Count (TLC)	**90.10**	thou/mm3	4.00 - 10.00
Differential Leucocyte Count (DLC)			
Segmented Neutrophils	**6.30**	%	40.00 - 80.00
Lymphocytes	**92.10**	%	20.00 - 40.00
Monocytes	**1.30**	%	2.00 - 10.00
Eosinophils	**0.10**	%	1.00 - 6.00
Basophils	0.20	%	<2.00
Absolute Leucocyte Count			
Neutrophils	5.68	thou/mm3	2.00 - 7.00
Lymphocytes	**82.98**	thou/mm3	1.00 - 3.00
Monocytes	**1.17**	thou/mm3	0.20 - 1.00
Eosinophils	0.09	thou/mm3	0.02 - 0.50
Basophils	**0.18**	thou/mm3	0.02 - 0.10
Platelet Count	169	thou/mm3	150.00 - 410.00
Mean Platelet Volume	9.7	fL	6.5 - 12.0

Note

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Test Report

Test Name	Results	Units	Bio. Ref. Interval

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

Comments

RBCs are predominantly normocytic normochromic.
WBC - There is leucocytosis with lymphocytosis. Cells are predominantly monomorphic, small mature lymphocytes. Smudge cells are present.
Platelets are adequate in smear.
Imp - Features are suggestive of chronic lymphoproliferative disorder (CLPD).

Advice

Close follow up and clinical correlation.
Immunophenotyping with flow cytometry.

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
LIVER & KIDNEY PANEL, SERUM			
Creatinine (Jaffe Compensated)	1.09	mg/dL	<1.20
GFR Estimated	83	mL/min/1.73m2	>59
GFR Category	G2		
Urea (Urease UV)	27.00	mg/dL	19.00 - 44.00
Urea Nitrogen Blood	12.61	mg/dL	8.90 - 20.60
BUN/Creatinine Ratio	12		
Uric Acid (Enzymatic Colorimetric)	4.00	mg/dL	3.4 - 7.0
AST (SGOT) (IFCC without P5P)	30.0	U/L	<40
ALT (SGPT) (IFCC without P5P)	26.0	U/L	<41
GGTP (IFCC)	22.0	U/L	<71.00
Alkaline Phosphatase (ALP) (IFCC)	**147.00**	U/L	<128
Bilirubin Total (Diazo)	0.50	mg/dL	<1.10
Bilirubin Direct (Diazo)	0.10	mg/dL	<0.20
Bilirubin Indirect (Calculated)	0.40	mg/dL	<1.10
Total Protein (Biuret)	7.31	g/dL	6.40 - 8.30
Albumin (BCG)	4.86	g/dL	3.97 - 4.94
A : G Ratio (Calculated)	1.98		0.90 - 2.00
Globulin(Calculated)	2.45	gm/dL	2.0 - 3.5
Calcium, Total (NM-BAPTA)	9.35	mg/dL	8.6 - 10.0

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
Phosphorus (Molybdate UV)	3.09	mg/dL	2.6 - 4.5
Sodium (ISE)	143.90	mEq/L	136.00 - 145.00
Potassium (ISE)	4.69	mEq/L	3.5 - 5.1
Chloride (ISE, indirect)	107.00	mEq/L	98 - 108

Advise: CKD Risk Map (Z1014)

Note

1. 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 (CHOD-PAP)	**222.00**	mg/dL	<200
Triglycerides (GPO-PAP)	**271.00**	mg/dL	<150.00
HDL Cholesterol (Homogenous Enzymatic Colorimetric)	**34.60**	mg/dL	>40
LDL Cholesterol, Calculated (Calculated)	**133.20**	mg/dL	<100.00
VLDL Cholesterol,Calculated (Calculated)	**54.20**	mg/dL	<30.00
Non-HDL Cholesterol (Calculated)	**187**	mg/dL	<130

Interpretation

REMARKS	TOTAL CHOLESTEROL in mg/dL	TRIGLYCERIDE in mg/dL	LDL CHOLESTEROL in mg/dL	NON HDL CHOLESTEROL in mg/dL
Optimal	<200	<150	<100	<130
Above Optimal	-	-	100-129	130 - 159

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Test Report

Test Name		Results	Units	Bio. Ref. Interval
Borderline High	200-239	150-199	130-159	160 - 189
High	>=240	200-499	160-189	190 - 219
Very High	-	>=500	>=190	>=220

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. NLA-2014 recommends a complete lipoprotein profile as the initial test for evaluating cholesterol.
3. 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
4. NLA-2014 identifies Non HDL Cholesterol(an indicator of all atherogeniclipoproteins such as LDL , VLDL, IDL, Lpa, Chylomicron remnants)along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non HDL.
5. Apolipoprotein B is an optional, secondary lipid target for treatment once LDL & Non HDL goals have been achieved
6. 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 2016

RISK CATEGORY	TREATMENT GOAL		CONSIDER THERAPY	
	LDL CHOLESTEROL (LDL-C)(mg/dL)	NON HDL CHLOESTEROL (NON HDL-C) (mg/dL)	LDL CHOLESTEROL (LDL-C)(mg/dL)	NON HDL CHLOESTEROL (NON HDL-C) (mg/dL)
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

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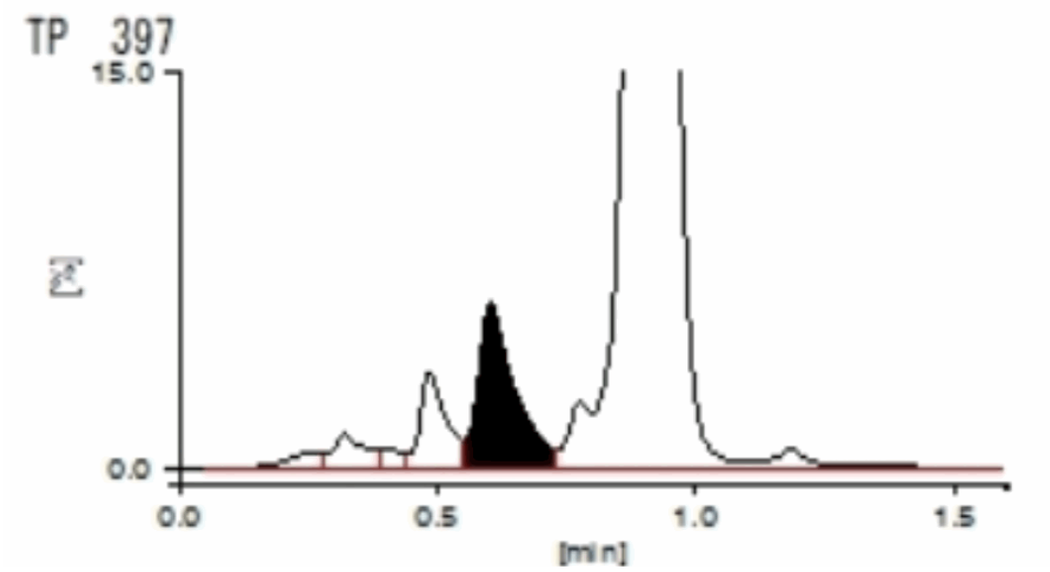
Test Report

Test Name	Results	Units	Bio. Ref. Interval
HbA1c (GLYCOSYLATED HEMOGLOBIN), BLOOD (HPLC, NGSP certified)			
HbA1c	**6.3**	%	4.00 - 5.60
Estimated average glucose (eAG)	134	mg/dL	



Interpretation

HbA1c result is suggestive of at risk for Diabetes (Prediabetes)/ 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
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.

FACTORS THAT INTERFERE WITH HbA1C MEASUREMENT	FACTORS THAT AFFECT INTERPRETATION OF HBA1C RESULTS

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
Hemoglobin variants,elevated fetal hemoglobin (HbF) and chemically modified derivatives of hemoglobin (e.g. carbamylated Hb in patients with renal failure) can affect the accuracy 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 HbA1c test results regardless of the assay method used.Iron deficiency anemia is associated with higher HbA1c		

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
GLUCOSE, FASTING (F), PLASMA (Hexokinase)			
Glucose Fasting	**102.00**	mg/dL	70.00 - 100.00
THYROID PROFILE,TOTAL, SERUM (ECLIA)			
T3, Total	1.04	ng/mL	0.80 - 2.00
T4, Total	7.64	µg/dL	5.10 - 14.10
TSH	2.07	µIU/mL	0.27 - 4.20

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

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
VITAMIN B12; CYANOCOBALAMIN, SERUM (ECLIA)	289.00	pg/mL	211.00 - 946.00

Notes

1. Interpretation of the result should be considered in relation to clinical circumstances.
2. 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 (ECLIA)	**18.60**	nmol/L	75.00 - 250.00

Interpretation

LEVEL	REFERENCE RANGE IN nmol/L	COMMENTS
Deficient	< 50	High risk for developing bone disease
Insufficient	50-74	Vitamin D concentration which normalizes Parathyroid hormone concentration
Sufficient	75-250	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.

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Test Report

Test Name	Results	Units	Bio. Ref. Interval

- 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

Dr. Anchala Kumari
MBBS, MD (Biochemistry)
Consultant Biochemist
KRL - Dr Lal PathLabs Ltd

Dr.Arun Sinha
MBBS,MD,DNB (Biochemistry)
Consultant Biochemist
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Dr. Kaushik Dey
MD (Pathology)
Consultant Pathologist
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Dr. Sumedha Dey
MD, Pathology
Consultant Pathologist
KRL - Dr Lal PathLabs Ltd

----------End of report ----------

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Test Report

Test Name	Results	Units	Bio. Ref. Interval

IMPORTANT INSTRUCTIONS

•Test results released pertain to the specimen submitted.•All test results are dependent on the quality of the sample received by the Laboratory.•Laboratory investigations are only a tool to facilitate in arriving at a diagnosis and should be clinically correlated by the Referring Physician .•Report delivery may be delayed due to unforeseen circumstances. Inconvenience is regretted.•Certain tests may require further testing at additional cost for derivation of exact value. Kindly submit request within 72 hours post reporting.•Test results may show interlaboratory variations.•The Courts/Forum at Delhi shall have exclusive jurisdiction in all disputes/claims concerning the test(s) & or results of test(s).•Test results are not valid for medico legal purposes.•This is computer generated medical diagnostic report that has been validated by Authorized Medical Practitioner /Doctor.•The report does not need physical signature.

(#) Sample drawn from outside source.

If Test results are alarming or unexpected, client is advised to contact the Customer Care immediately for possible remedial action.

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