Name	: **Mr. ABHISHEK SINGH**		
Lab No.	: **448488177**	**Age**	: **28 Years**
Ref By	: **SELF**	**Gender**	: **Male**
Collected	: **28/1/2024 10:43:00AM**	**Reported**	: **29/1/2024 10:51:25AM**
A/c Status	: **P**	**Report Status**	: **Final**
Collected at	: **VERMA DIAGNOSTIC B-24, MITRA MANDAL COLONY,SAKET VIHAR, M no -7050483752**	**Processed at**	: **Patna Lab II R K ESTATE opposite IGIMS Raja Bazar Bailey Road Patna-800014**

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
SwasthFit Super 2			
LIVER & KIDNEY PANEL, SERUM			
Creatinine (Jaffe Compensated)	1.08	mg/dL	<1.20
GFR Estimated	95	mL/min/1.73m2	>59
GFR Category	G1		
Urea (Urease UV)	24.90	mg/dL	19.00 - 44.00
Urea Nitrogen Blood	11.63	mg/dL	8.90 - 20.60
BUN/Creatinine Ratio	11		
Uric Acid (Enzymatic Colorimetric)	**7.20**	mg/dL	3.4 - 7.0
AST (SGOT) (IFCC without P5P)	31.7	U/L	<40
ALT (SGPT) (IFCC without P5P)	**56.2**	U/L	<41
GGTP (IFCC)	29.0	U/L	<71.00
Alkaline Phosphatase (ALP) (IFCC)	121.00	U/L	<128
Bilirubin Total (Diazo)	0.46	mg/dL	<1.10
Bilirubin Direct (Diazo)	0.18	mg/dL	<0.20
Bilirubin Indirect (Calculated)	0.28	mg/dL	<1.10
Total Protein (Biuret)	7.31	g/dL	6.40 - 8.30
Albumin (BCG)	4.17	g/dL	3.50 - 5.20
A : G Ratio (Calculated)	1.33		0.90 - 2.00
Globulin(Calculated)	3.14	gm/dL	2.0 - 3.5
Calcium, Total (NM-BAPTA)	9.08	mg/dL	8.6 - 10.0

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
Phosphorus (Molybdate UV)	3.53	mg/dL	2.6 - 4.5
Sodium (Indirect ISE)	137.90	mEq/L	136.00 - 145.00
Potassium (Indirect ISE)	4.49	mEq/L	3.5 - 5.1
Chloride (Indirect ISE)	99.60	mEq/L	98 - 108

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)	190.30	mg/dL	<200
Triglycerides (GPO-PAP)	124.50	mg/dL	<150.00
HDL Cholesterol (Homogenous Enzymatic Colorimetric)	46.90	mg/dL	>40
LDL Cholesterol, Calculated (Calculated)	**118.50**	mg/dL	<100.00
VLDL Cholesterol,Calculated (Calculated)	24.90	mg/dL	<30.00
Non-HDL Cholesterol (Calculated)	**143**	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

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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 factors

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	
	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)
Extreme Risk Group Category A	<50 (Optional goal ≤30)	<80 (Optional goal ≤60)	≥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

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
COMPLETE BLOOD COUNT;CBC (Electrical Impedence & Flow)			
Hemoglobin	14.10	g/dL	13.00 - 17.00
Packed Cell Volume (PCV)	44.10	%	40.00 - 50.00
RBC Count	5.29	mill/mm3	4.50 - 5.50
MCV	83.40	fL	83.00 - 101.00
MCH	**26.70**	pg	27.00 - 32.00
MCHC	32.00	g/dL	31.50 - 34.50
Red Cell Distribution Width (RDW)	13.80	%	11.60 - 14.00
Total Leukocyte Count (TLC)	7.01	thou/mm3	4.00 - 10.00
Differential Leucocyte Count (DLC)			
Segmented Neutrophils	55.10	%	40.00 - 80.00
Lymphocytes	37.20	%	20.00 - 40.00
Monocytes	4.00	%	2.00 - 10.00
Eosinophils	3.30	%	1.00 - 6.00
Basophils	0.40	%	<2.00
Absolute Leucocyte Count			
Neutrophils	3.86	thou/mm3	2.00 - 7.00
Lymphocytes	2.61	thou/mm3	1.00 - 3.00
Monocytes	0.28	thou/mm3	0.20 - 1.00
Eosinophils	0.23	thou/mm3	0.02 - 0.50
Basophils	0.03	thou/mm3	0.02 - 0.10
Platelet Count	172	thou/mm3	150.00 - 410.00

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

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Test Report

Test Name	Results	Units	Bio. Ref. Interval

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
HbA1c (GLYCOSYLATED HEMOGLOBIN), BLOOD (HPLC, NGSP certified)			
HbA1c	5.6	%	4.00 - 5.60
Estimated average glucose (eAG)	114	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
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
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 Name	Results	Units	Bio. Ref. Interval
GLUCOSE, FASTING (F), PLASMA (Hexokinase)	83.00	mg/dL	70.00 - 100.00

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Test Report

Test Name	Results	Units	Bio. Ref. Interval
THYROID PROFILE,TOTAL, SERUM (ECLIA)			
T3, Total	1.25	ng/mL	0.80 - 2.00
T4, Total	8.04	µg/dL	5.10 - 14.10
TSH	2.33	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

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

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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