

A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 11205	50	<b>PID</b> : 24126
Age/Gender: 40 Year/Male	Sample Date	e: 9-Mar-2024	09:20 AM
Ref. By Dr. : MEDIWHEEL	Report Date	: 9-Mar-2024	
Address : HISAR	Sample Type	e : Inside	*24126*
Test Name	Value	Unit	Reference Range
	HEAMATOLOGY		
CBC (Complete Blood Count)			
Haemoglobin (Hb)	15.3	g/dl	12.0 - 17.4 g/dl
Fotal RBC Count	5.63	m/cumm	4.70 - 6.10
Haematocrit	45.8	%	35.0 - 50.0 %
Mean Cell Volume	81.4	fL	80.0 - 100 fL
lean Cell Haemoglobin	27.2	pg	27.0 - 34.0 pg
lean Cell Haemoglobin Conc	33.4	%	32.0 - 36.0
Red Cell Distribution Width (RDW) - SD	45.6	fL	35.0 - 56.0 fL
Red Cell Distribution Width (RDW) - CV	13.7	%	11.0 - 16.0 %
Total Leucocyte Count	10010	cells/cum m	4000 - 11000
Differential Leucocyte Count			
Neutrophils	70	%	32 - 72 %
_ymphocytes	25	%	20 - 50 %
Monocytes	3	%	2 - 11 %
Eosinophils	2	%	1 - 3 %
Basophils	0	%	0 - 2 %
Platelet Count	2,24,000	cells/cunm m	150,000 - 450,000
Platelet Distribution Width	17.5	fL	15.0 - 18.0 fL
Mean Platelet Volume	12.1	fL	7.0 - 13.0 fL
Sample Type : Whole Blood			

1.Spurious elevation of platelet count may be seen in patients with extensive burns, extreme microcytosis ,microangiopathic hemolytic anemia, red cell fragmentation ,micro-organisms like bacteria, fungi or yeast, hyperlipidemia, fragments of white blood cell (WBC) cytoplasm in patients with acute leukemia, hairy cell leukemia, lymphomas and in presence of cryoglobulins.

2. Spuriously low platelet counts may be seen in cases of platelet clumping (EDTA induced , platelet cold agglutinins , multiple myeloma) , platelet satellitism and in giant platelet syndromes.

3.Delay in processing due to sample transport may cause a mild time dependent fall in platelet count. It is advisable to repeat the test using a citrate / heparin collection tube to avoid this pitfall.

4. Automated platelet counting is subject to 10-15% variation in the result on the same as well as different analysers due to various preanalytic variables like the sampling site ,skill in sample collection, anticoagulant used ,sample mixing and sample transport etc.

### **ABO Blood Grouping**

### Blood Group

Haemagglutination reaction A Rh Positive,B Rh Positive,AB Rh Positive,O Rh Positive,A Rh Negative,B Rh Negative,AB Rh Negative,O Rh Negative Sample Type : Whole Blood

HBA1C HBA1C turbidimetric immunoassay		. 5.Ż	. %	4.27 - 6.00 <sup>•</sup> %
Dr. (Maj.)Guruprasad	Dr. Rambaksh Sharma	Dr. RAJESH REDDU	Dr. Amit Verma	Dr. Manish Varshney
MBBS, DMRD, DNB	MBBS, MD	MBB5, DMRD	MBBS, MD	MBBS, MD
Consultant Radiologist	Consultant Radiologist	Consultant Radiologist	Consultant Physician	Consultant Pathologist

AB"POSITIVE



A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 1120	050	<b>PID</b> : 24126
Age/Gender: 40 Year/Male	Sample Da	<b>te</b> : 9-Mar-2024	09:20 AM
Ref. By Dr. : MEDIWHEEL	Report Dat	<b>e</b> : 9-Mar-2024	
Address : HISAR	Sample Ty	pe : Inside	*24126*
Test Name	Value	Unit	Reference Range
HBA1C			
Average Blood Glucose turbidimetric immunoassav Sample Type : Whole Blood	102.54	mg/dl	90.00 - 120.00 mg/dl
Remarks : GLYCOSYLATED HEMOGLOBIN (HbA1c) Reference Range : Please correlate with clinical conditions. Bellow 6.0 % Normal value 6.0 %-7.0 % Good control 7.0 %-8.0 % Fair control 8.0 %-10 % Unsatisfactory control Above10 % Poor control Technology : Immunoassay and chemistry technology to measu AVERAGE BLOOD GLUCOSE (ABG) CALCULATED	re A1C and total H	B (A1C now Bayer)	
Reference Range: Please correlate with clinical conditions. 90-120 mg/dl Excellent control 121-150 mg/d Good control 151-180 mg/dl Average control 181-210 mg/dl Action suggested > 211 mg/dl Panic values NOTE: Average blood glucose value is calculated from HbA1C past three months. Technology: Derived from Hb A1C Values Sample Type: Sodium heparin:	value and it indicate	es average blood si	ugar level over
ESR			
ESR Sample Type : Whole Blood	6	mmHr	0 - 15 mmHr

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Consultant Radiologist Dr. Rambaksh Sharma MBBS, MD Consultant Radiologist Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist Dr. Amit Verma MBBS, MD Consultant Physician





A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 112050	<b>PID</b> : 24126
Age/Gender: 40 Year/Male	Sample Date : 9-Mar-2024	09:20 AM
Ref. By Dr. : MEDIWHEEL	Report Date : 9-Mar-2024	
Address : HISAR	Sample Type : Inside	*24126*
Test Name	Value Unit	Reference Range

#### CLINICAL COMMENTS:

Erythrocyte sedimentation rate (ESR or sed rate) is a relatively simple, inexpensive, non-specifictest that indirectly measures the degree of inflammation present in the body. Inflammation is part of the body's immune response. It can be acute, developing rapidly after trauma. injury or infection, for example, or can occur over an extended time (chronic) with conditions such as autoimmune diseases or cancer. Moderately elevated ESR occurs with inflammation but also with anemia, infection, pregnancy, and with aging. A very high ESR usually has an obvious cause, such as a severe infection, marked by an increase in globulins, systemic vasculitis, polymyalgia rheumatica or temporal arteritis. People with multiple myeloma or Waldenstrom's macroglobulinemia (tumors that make large amounts of immunoglobulins) typically have very high ESRs even if they don't have inflammation. Factors increasing ESR: Advanced age Anemia Pregnancy High fibrinogen Macrocytosis Kidney problems Thyroid disease Some cancers, such as multiple myeloma Infection Factors decreasing ESR Microcytosis Low fibrinogen Polycythemia Marked leukocytosis **CLINICAL-CHEMISTRY URIC ACID** 

Uric acid	4.25	mg/dL	3.5 - 7.2
Uricase - POD Sample Type : SERUM			
Sample Type . SEITOW			
	of renal failure, disseminated neoplasms, pregnancy to ported in Wilson's disease, Fanconi's syndrome,	kaemia, psorias	is, liver disease,
Glucose, Post Prandial	110.2	mg/dl	70 - 140 mg/dl
Hexokinase / GOD - POD		Ū.	U U
Sample Type : SERUM			

BBS. DI ARD, DN Rambaksh Sharma MBBS, MD Consultant Radiologist

Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist

Dr. Amit Verma MBBS, MD Consultant Physician





A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 112050	<b>PID</b> : 24126
Age/Gender: 40 Year/Male	Sample Date : 9-Mar-2024	09:20 AM
Ref. By Dr. : MEDIWHEEL	Report Date : 9-Mar-2024	
Address : HISAR	Sample Type : Inside	*24126*
Test Name	Value Unit	Reference Range

Criteria for the diagnosis of diabetes (American diabetes association, 2019)

• Fasting Plasma Glucose ≥126 mg/dL. Fasting is defined as no caloric intake for at least 8 h. OR

• 2-h PG ≥200 mg/dL during OGTT. The test should be performed using a glucose load containing the equivalent of 75-g anhydrous glucose dissolved in water.\*

OR

• HbA1c ≥6.5%.

OR

• Random plasma glucose ≥200 mg/dL in a patient with classic symptoms of hyperglycemia or hyperglycemic crisis .

Criteria defining prediabetes (American diabetes association, 2019)

• FPG 100 mg/dL to 125 mg/dL (Impaired fasting glucose, IFG)

OR

• 2-h PG during 75-g OGTT 140 mg/dL to 199 mg/dL (Impaired glucose tolerance, IGT)

OR

• HbA1c 5.7-6.4%

Note:

All abnormal results must be confirmed with a repeat test on a different day.

**Total Protein** 

Total Protein	7.3	gm/dl	6.0 - 8.3
BIURET Albumin	4.5	g/dl	2.9 - 4.5
BCG Globulin	2.8	gm/dl	2.0 - 3.5
Albumin-Globulin Ratio	1.7		1.2 - 2.5
Sample Type : SERUM			

**CREATININE SERUM** 

CREATININE SERUM Jaffe Kinetic Sample Type : SERUM

CREATININE: Increases in any renal functional impairment (intrinsic renal lesions, decreased perfusion of the kidney, or obstruction of the lower urinary tract), acromegaly and hyperthyroidism. Decreases in

pregnancy, muscle wasting.

0.90	mg/dl	0.20 - 1.00 mg/dl
0.40	mg/dl	0.10 - 0.50 mg/dl
0.50	mg/dl	0.20 - 0.70 mg/dl
32.58	IU/L	10 - 40 IU/L
72.3	IU/L	07 - 56 IU/L
	0.40 0.50 32.58	0.40 mg/dl 0.50 mg/dl 32.58 IU/L

Dr. (Maj.)Guruprasad MBBS, DMRD, DNE Consultant Radiologis ambaksh Sharma MBBS, MD Consultant Radiologist r. RAJESH REDDU MBBS, DMRD Consultant Radiologist

1.1

Dr. Amit Verma MBBS, MD Consultant Physician

mg/dL

Dr. Manish Varshney MBBS, MD Consultant Pathologist

0.5 - 1.4 mg/dL



A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 1120	)50	<b>PID</b> : 24126
Age/Gender : 40 Year/Male	Sample Dat	t <b>e</b> : 9-Mar-2024	09:20 AM
Ref. By Dr. : MEDIWHEEL	Report Date	e : 9-Mar-2024	
Address : HISAR	Sample Typ	<b>be :</b> Inside	*24126*
Test Name	Value	Unit	Reference Range
LIVER FUNCTION TEST (LFT) (S)			
Alkaline Phosphatase	145.2	U/L	44 - 147 U/L
IFCC PNPP Buffer Total Protein	7.3	gm/dl	6.0 - 8.3
BIURET Albumin	4.5	g/dl	3.5 - 5.5 g/dl
BCG Globulin	2.8	gm/dl	2.0 - 3.5 gm/dl
AG RATIO	1.7	3	1.2 - 2.5

#### Sample Type : SERUM

Linid Profile

#### CLINICAL COMMENT:

Liver function tests can be suggested in case of hepatitis, liver cirrhosis and monitor possible side effects of medications. A variety of diseases and infections can cause acute or chronic damage to the liver, causing inflammation (hepatitis), scarring (cirrhosis), bile duct obstructions, liver tumors, and liver dysfunction. Alcohol, drugs, some herbal supplements, and toxins can also inure the liver. A significant amount of liver damage may occur before symptoms such as jaundice, dark urine, light-colored stools, itching (pruritus), nausea, fatigue, diarrhea, and unexplained weight loss or gain appear. Early detection of liver injury is essential in order to minimize damage and preserve liver function.

Alanine aminotransferase (ALT) A very high level of ALT is frequently seen with acute hepatitis. Moderate increases may be seen with chronic hepatitis. People with blocked bile ducts, cirrhosis, and liver cancer may have ALT concentrations that are only moderately elevated or close to normal. Aspartate aminotransferase (AST) A very high level of AST is frequently seen with acute hepatitis. AST may be normal to moderately increased with chronic hepatitis. In people with blocked bile ducts, cirrhosis, and liver cancer, AST concentrations may be moderately increased or close to normal. When liver damage is due to alcohol, AST often increases much more than ALT (this is a pattern seen with few other liver diseases). AST is also increased after heart attacks and with muscle injury. AST is a less sensitive and less specific marker of liver injury than ALT. AST is more elevated than ALT in

alcohol-induced liver injury. AST could elevated more than ALT like: (i)

Cholesterol	213.5	mg/dl	<200.0 mg/dl
CHOD - PAP Triglycerides	153.4	mg/dl	< 150 mg/dl
GPO - PAP	10011		
HDL Cholesterol	43.10	mg/dl	Adult males >45 mg/dl
Homogeneous Enzymatic Colorimetric test LDL Cholesterol	139.72	mg/dl	<100 mg/dl
VLDL Cholesterol	30.68	mg/dl	<30.0 mg/dl
CHO/HDL Ratio	4.95	mg/dl	Low risk 3.3-4.4
Non HDL Cholesterol	170.4	mg/dl	<130 mg/dl
Calculated Sample Type : SERUM			

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Consultant Radiologist r. Rambaksh Sharma MBBS, MD Consultant Radiologist Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist Dr. Amit Verma MBBS, MD Consultant Physician





A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 112050	<b>PID</b> : 24126
Age/Gender: 40 Year/Male	Sample Date : 9-Mar-202	24 09:20 AM
Ref. By Dr. : MEDIWHEEL	Report Date : 9-Mar-202	24
Address : HISAR	Sample Type : Inside	*24126*
Test Name	Value Unit	Reference Range

Interpretation

Note

1.Measurements in the same patient can show physiological& analytical variations. 3 serial samples 1 wk apart are recommended for Total Cholesterol, Triglycerides, HDL& LDL Cholesterol.

2. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogenic lipoproteins 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.

Apolipoprotein B is an optional, secondary lipid target for treatment once LDL & Non HDL goals have been achieved.
 Additional testing for Apolipoprotein B, hsCRP, Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement.

### **CLINICAL PATHOLOGY**

Colour PALE-YELLOW Pale-yellow,Yellowish,Colorless,YELLOW Quantity 30 ml	ml
	ml
Quantity 30 ml	ml
рН 6.0	
Mucus ABSENT	
Absent,Present	
Appearance CLEAR	
Slightly turbid,Turbid,Clear	
Chemical Examination (Strip)	
Specific Gravity 1.025	
Albumin NEGATIVE	
Absent,Present(+),Present(2+),Present(3+)	
Sugar NEGATIVE	
Absent,Present(+),Present(2+),Present(3+)	
Bilirubin NEGATIVE	
Absent,Present	
Microscopic Examination (Microscopy)	
Pus Cells 4-6 /HPF	/HPF
Epithelial Cells 1-2 /HPF	/HPF
RBC NIL /HPF	/HPF
Casts ABSENT	
Crystals ABSENT	
Bacteria ABSENT	
Others	
Sample Type : Urine	

Glucose, Fasting

Laboratory 87.3

mg/dl 70 - 110 mg/dl

Sample Type : SERUM

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Consultant Radiologist Dr. Rambaksh Sharma MBBS, MD Consultant Radiologist Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist Dr. Amit Verma MBBS, MD Consultant Physician r. Manish Varshney MBBS, MD Consultant Pathologist



A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Name : Mr. I	DHEERAJ SINGH S/o Uł	HID : 112050 PID : 24126
Age/Gender : 40	) Year/Male Sa	ample Date : 9-Mar-2024 09:20 AM
Ref. By Dr. : M	EDIWHEEL Re	eport Date : 9-Mar-2024
Address : HIS	AR Sa	ample Type : Inside *24126*
Test Name	Value	e Unit Reference Range

Criteria for the diagnosis of diabetes (American diabetes association, 2019)

• Fasting Plasma Glucose ≥126 mg/dL. Fasting is defined as no caloric intake for at least 8 h. OR

• 2-h PG ≥200 mg/dL during OGTT. The test should be performed using a glucose load containing the equivalent of 75-g anhydrous glucose dissolved in water.\*

OR

• HbA1c ≥6.5%.

OR

• Random plasma glucose ≥200 mg/dL in a patient with classic symptoms of hyperglycemia or hyperglycemic crisis .

Criteria defining prediabetes (American diabetes association, 2019)

• FPG 100 mg/dL to 125 mg/dL (Impaired fasting glucose, IFG)

OR

• 2-h PG during 75-g OGTT 140 mg/dL to 199 mg/dL (Impaired glucose tolerance, IGT)

OR

• HbA1c 5.7-6.4%

Note:

All abnormal results must be confirmed with a repeat test on a different day.

	ENDOCRINE		
Thvroid Hormones (T3 .T4 & TSH)			
ТЗ	0.82	ng/ml	0.60 - 1.81 ng/ml
Τ4	8.12	ng/dl	5.01 - 12.45 ng/dl
TSH (Thyroid stimulating hormones)	4.71	ulU/ml	0.34 - 5.50 ulU/ml
Sample Type : SERUM			

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Consultant Radiologist r. Rambaksh Sharma MBBS, MD Consultant Radiologist Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist

Dr. Amit Verma MBBS, MD Consultant Physician Dr. Manish VarShney MBBS, MD Consultant Pathologist



A Unit of Lotus Diagnostic & Imaging Solution Pvt. Ltd. HB से लेकर MRI तक एक ही छत के नीचे

Test Name	Value Unit	Reference Range
Address : HISAR	Sample Type : Inside	*24126*
Ref. By Dr. : MEDIWHEEL	Report Date : 9-Mar-2024	
Age/Gender: 40 Year/Male	Sample Date : 9-Mar-2024	09:20 AM
Name : Mr. DHEERAJ SINGH S/o	<b>UHID</b> : 112050	<b>PID</b> : 24126

Remarks :

Note1.TSH levels are subject to circadian variation, reaching peak levels between 2-4.a.m and at a minium between 6-10 pm. The variation is of the 50 %, hence time of the day has influence on the measured serum TSH concentrations. 2. Recommended test for T3 and T4 unbound or free level as it is metabollically active. 3. Physiological rise in Total T3 and T4 level is seen in pregnancy and in patients on steroid therapy. Clinical Use-\* Primary Hypothyroidism \* Hperthyroidism \* Hypothalamic- Pituitary hypothyroidism \* Inappropriate-TSH secretion \* Nonthyroidal illness \* Autoimmune thyroid disease \* Pregnency associated thyroid disorders \* Thyroid dysfunction in infancy and early childhood

### IMMUNOLOGY

0.78

ng/ml

0.00 - 4.0 ng/ml

Sample Type : SERUM

Total PSA

Summary & Interpretation:

Elevated concentrations of PSA in serum are generally indicative of a patho-logic-condition of the prostate (prostatitis, begin hyperplasia or carcinoma). PSA determinations are employed are the

monitoring of progress and efficiency of therapy in patients with prostate carcinoma or receiving hormonal therapy . An inflammation or trauma of the prostate(e.g. In case of urinary retention or

following rectal examination, cystoscopy, coloscopy, transurethral biopsy, lasertreatment or ergometry) can lead to PSA elevations of varying duration and magnitu

--End of Report--

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Consultant Radiologist r. Rambaksh Sharma MBBS, MD Consultant Radiologist Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist Dr. Amit Verma MBBS, MD Consultant Physician r. Manish Varshney MBBS, MD Consultant Pathologist

Near Gurudwara, Gurudwara Road, Model Town, Hisar Mob. 078438-88111,78438-88222 | E-mail : lotusimagingpytItd@gmail.com