

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

					_
Name : Mrs. SHAKUNTLA W/o		<b>UHID</b> : 13315	56 <b>S No</b> :	<b>PID</b> : 37695	
Age/Gender: 48 Year/Female	A.S : NP	Sample Date	: 4-Oct-2024	11:28 AM	
Ref. By Dr. : MEDIWHEEL		Report Date	: 4-Oct-2024	07:11 PM	
Address : BHIWANI		Sample Type	Sample Type : Inside		
Test Name		Value	Unit	Reference Range	
	HEAM	ATOLOGY			
CBC (Complete Blood Count)					
Haemoglobin (Hb)		11.9	g/dl	12.0 - 15.0 g/dl	
Total RBC Count		4.6	m/cumm	4.20 - 5.40	
Haematocrit		35.9	%	35.0 - 50.0 %	
lean Cell Volume		77.4	fL	80.0 - 100 fL	
lean Cell Haemoglobin		25.6	pg	27.0 - 34.0 pg	
lean Cell Haemoglobin Conc		33.1	%	32.0 - 36.0	
Red Cell Distribution Width (RDW)-CV		12.7	%	11.0 - 16.0 %	
Red Cell Distribution Width (RDW)-SD		38.8	fL	35.0 - 56.0 fL	
- Total Leucocyte Count		7300	cells/cum	4000 - 11000	
			m		
Differential Leucocyte Count					
leutrophils		61	%	32 - 72 %	
ymphocytes		33	%	20 - 50 %	
<i>l</i> onocytes		04	%	2 - 11 %	
Eosinophils		02	%	1 - 3 %	
asophils		0	%	0 - 2 %	
Platelet Count		2,22,000	cells/cunm m	150,000 - 450,000	
Platelet Distribution Width		12.6	fL	15.0 - 18.0 fL	
Mean Platelet Volume		10.3	fL	7.0 - 13.0 fL	
Sample Type : Whole Blood					

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**

Haemaaqlutination 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		5.1	. %	4.27 - 6.00 <sup>•</sup> %
Dr. (Maj.)Guruprasad	Dr. Rambaksh Sharma	Dr. RAJESH REDDU	Dr. Amit Verma	Dr. Manish Varshney
MBBS, DMRO, DNB	MBBS, MD	MBBS, DMRD	MBBS, MD	MBBS, MD
Consultant Radiologist	Consultant Radiologist	Consultant Radiologist	Consultant Physician	Consultant Pathologist

A"POSITIVE



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Age/Gender:       # 8 Year/Female       A.S: NP       Sample Date       :4-Oct-2024       11:28 AM         Ref. By Dr.       :       MEDIWHEEL       Report Date       :4-Oct-2024       07:07 PM         Address       :       BHIWANI       Sample Type : Inside       *376Q5*         Test Name       Value       Unit       Reference Range         HBA1C       Withdimstrinumunasau       99.67       mg/dl       90.00 - 120.00 mg/dl         Withdimstrinumunasau       Sample Type :       Whole Blood       90.00 - 120.00 mg/dl         Sample Type :       Whole Blood       Remarks :       GLVCOSYLATED HEMOGLOBIN (HbA1c)         Reference Range :       Please correlate with clinical conditions.       90.00 - 120.00 mg/dl         8.0 % - 70 % Good control       7.0 %-8.0 % Fair control       Above 10 % Poor control         7.0 %-8.0 % Fair control       8.0 %-10 % Unsatisfactory control       Above 10 % Poor control         7.0 %-8.0 % Fair control       Reference Range: Please correlate with clinical conditions.       90-00 - 120.00 Gul/dl Action suggested         > 211 mg/dl Excellent control       11:428 M/dl       Reference Range: Please control       11:428 M/dl         121-150 mg/dl Action suggested       > 211 mg/dl Panic values       NOTE: Average blood glucose value is calculated from HbA1C value and it indicates average blood	Name : Mrs. SHAKUNTLA W/o	<b>UHID</b> : 1331	56 <b>S No</b> :	<b>PID</b> : 37695
Address     : BHIWANI     Sample Type : Inside     *376Q5*       Test Name     Value     Unit     Reference Range       HBA1C     Werdge Blood Glucose     99.67     mg/dl     90.00 - 120.00 mg/dl       Varerage Blood Glucose     99.67     mg/dl     90.00 - 120.00 mg/dl       Varerage Blood Glucose     99.67     mg/dl     90.00 - 120.00 mg/dl       Sample Type :     Whole Blood     Remarks :     97.0     90.00 - 120.00 mg/dl       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     Above10 % Poor control       Average BLOOD GLUCOSE (ABG) CALCULATED     Reference Range: Please correlate with clinical conditions.     90-120 mg/dl Excellent control       121-150 mg/dl Average control     131-210 mg/dl Average control     131-210 mg/dl Average control       131-120 mg/dl Average blood glucose value is calculated from HbA1C value and it indicates average blood sugar level over past three months.     Technology: Derived from Hb A1C Values       Yort Middl Panic values     Yort Middl Panic values     Yort Middl Panic values       NOTE: Average blood glucose value is calculated from HbA1C value and it indicates average blood sugar level over past three months.       Technology: Derived from Hb A1C Values <td< th=""><th>Age/Gender: 48 Year/Female</th><th>A.S : NP Sample Dat</th><th><b>e</b>:4-Oct-2024</th><th>11:28 AM</th></td<>	Age/Gender: 48 Year/Female	A.S : NP Sample Dat	<b>e</b> :4-Oct-2024	11:28 AM
Test Name     Value     Unit     Reference Range       HBA1C     The Arrival Stress of the Arrival St	Ref. By Dr. : MEDIWHEEL	Report Date	e: 4-Oct-2024	07:07 PM
HBA1C         Winddendific immunoassay         Average Blood Glucose       99.67       mg/dl       90.00 - 120.00 mg/dl         turbidimetric immunoassay         Sample Type:       Whole Blood         Remarks :       GLYCOSYLATED HEMOGLOBIN (HbA1c)         Reference Range: Please correlate with clinical conditions.       Bellow 6.0 % Normal value         6.0 %-7.0 % Good control       7.0 % Good control         7.0 % Cood % Fair control       80.0 % 10.0 % Unsatisfactory control         Above10 % Poor control       Above10 % Poor control         AverAGE BLOOD GLUCOSE (ABG) CALCULATED       Reference Range: Please correlate with clinical conditions.         90-120 mg/dl Excellent control       111.1 % mg/dl Average control         121-150 mg/dl Action suggested       > 211 mg/dl Action suggested         > 111 mg/dl Panic values       NOTE: Average blood glucose value is calculated from HbA1C value and it indicates average blood sugar level over past three months.         Technology: Derived from Hb A1C Values       Sample Type: Sodium heparin:         ESR       20       mHr       0 - 20 mmHr	Address : BHIWANI	Sample Typ	e : Inside	*37695*
Average Blood Glucose       99.67       mg/dl       90.00 - 120.00 mg/dl         Wriddlimetric immunoassay       Sample Type : Whole Blood         Remarks :       GLYCOSYLATED HEMOGLOBIN (HbA1c)         Reference Range : Please correlate with clinical conditions.       Sellow 6.0 % Normal value         6.0 %-7.0 % Good control	Test Name	Value	Unit	Reference Range
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 measure A1C and total HB (A1C now Bayer) AVERAGE BLOOD GLUCOSE (ABG) CALCULATED Reference Range: Please correlate with clinical conditions. 90-120 mg/dl Excellent control 121-150 mg/dl Good control 131-210 mg/dl Average control 131-210 mg/dl Average control 131-210 mg/dl Average control 131-210 mg/dl Average blood glucose value is calculated from HbA1C value and it indicates average blood sugar level over past three months. Technology: Derived from Hb A1C Values Sample Type: Sodium heparin: ESR ESR 20 mmHr 0-20 mmHr	turbidimetric immunoassav Average Blood Glucose turbidimetric immunoassav	99.67	mg/dl	90.00 - 120.00 mg/dl
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 value and it indicates average blood sugar level over past three months.         Technology: Derived from Hb A1C Values         Sample Type: Sodium heparin:         ESR       20       mmHr       0 - 20 mmHr	GLYCOSYLATED HEMOGLOBIN (HbA1c) Reference Range : Please correlate with clir 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 te	echnology to measure A1C and total HE	3 (A1C now Bayer)	
	<ul> <li>90-120 mg/dl Excellent control</li> <li>121-150 mg/d Good control</li> <li>151-180 mg/dl Average control</li> <li>181-210 mg/dl Action suggested</li> <li>211 mg/dl Panic values</li> <li>NOTE: Average blood glucose value is calcupast three months.</li> <li>Technology: Derived from Hb A1C Values</li> <li>Sample Type: Sodium heparin:</li> </ul>		es average blood su	ıgar level over
	ESR sample Type : Whole Blood	20	mmHr	0 - 20 mmHr

Dr. Rambaksh Sharma MBBS, MD Consultant Radiologist Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist





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	Test Name			Value	Unit	Reference Range	
	Address	: BHIWANI		Sample Type : Ins	ide	*37695*	
	Ref. By Dr.	: MEDIWHEEL		Report Date : 4-	Oct-2024	07:13 PM	
	Age/Gender	: 48 Year/Female	A.S : NP	Sample Date : 4-	Oct-2024	11:28 AM	
(	Name	: Mrs. SHAKUNTLA W/o		<b>UHID</b> : 133156	S No :	<b>PID</b> : 37695	

#### 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 <sup>Uricase - POD</sup> Sample Type : SERUM	3.23	mg/dL	2.5 - 6.0
URIC ACID: Increases in case of renal failure, disseminated neop sarcoidosis etc. Decrease is reported in Wilson's disease, Fancor xanthinuria.		emia, psoriasis	s, liver disease,
Glucose.Postprandial			
Glucose, Post Prandial	95.1	mg/dl	70 - 140 mg/dl
Hexokinase / GOD - POD 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 r. Manish Varshney MBBS, MD Consultant Pathologist



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Age/Gend	er: 48 Year/Female	A.S : NP	Sample Dat	<b>e</b> : 4-Oct-2024	11:28 AM	
Ref. By Dr	. : MEDIWHEEL		Report Date	e: 4-Oct-2024	06:54 PM	
Address	: BHIWANI		Sample Typ	e : Inside	*37695*	
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.

#### **CREATININE SERUM**

CREATININE SERUM	0.66	mg/dL	0.5 - 1.4 mg/dL
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.

### LIVER FUNCTION TEST (LFT) (S)

Total Bilirubin-Serum	0.75	mg/dl	0.20 - 1.00 mg/dl
Bilirubin Direct Serum	0.18	mg/dl	0.10 - 0.50 mg/dl
Bilirubin Indirect-Serum	0.57	mg/dl	0.20 - 0.70 mg/dl
SGOT	25	IU/L	10 - 40 IU/L
IFCC with Pvridoxal Phosphate SGPT	18	IU/L	07 - 56 IU/L
IFCC with Pvridoxal Phosphate Alkaline Phosphatase	63	U/L	44 - 147 U/L
IFCC PNPP Buffer Total Protein	7.16	gm/dl	6.0 - 8.3
BIURET Albumin	4.07	g/dl	3.5 - 5.5 g/dl
BCG Globulin	3.09	gm/dl	2.0 - 3.5 gm/dl
AG RATIO	1.32		1.2 - 2.5
Sample Type : SERUM			

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



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l	Address	: BHIWANI		Sample Type : Insi	de	*37695*	
	Ref. By Dr.	: MEDIWHEEL		Report Date : 4-	Oct-2024	07:06 PM	
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(	Name	: Mrs. SHAKUNTLA W/o		<b>UHID</b> : 133156	S No :	<b>PID</b> : 37695	

#### 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)

Lipid Profile			
Cholesterol	213.3	mg/dl	<200.0 mg/dl
снод - рар Triglycerides	96.7	mg/dl	< 150 mg/dl
GPO - PAP HDL Cholesterol	71.5	mg/dl	Adult females >55 mg/dl
Homogeneous Enzymatic Colorimetric test LDL Cholesterol	122.46	mg/dl	<100 mg/dl
VLDL Cholesterol	19.34	mg/dl	<30.0 mg/dl
CHO/HDL Ratio	2.98	mg/dl	Low risk 3.3-4.4
Non HDL Cholesterol	141.8	mg/dl	<130 mg/dl
Calculated			

Sample Type : SERUM

Linid Drofile

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.

3. Apolipoprotein B is an optional, secondary lipid target for treatment once LDL & Non HDL goals have been achieved.

4. Additional testing for Apolipoprotein B, hsCRP, Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement.

#### PHYSICAL EXAMINATION

### CLINICAL PATHOLOGY

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 Dr. Manish Varshney MBBS, MD Consultant Pathologist

Interpretation



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Test Name	Value	Unit	Reference Range
Colour	PALE YELLOW		
Pale-yellow,Yellowish,Colorless,YELLOW			
Quantity	30	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	2-4	/HPF	
Epithelial Cells	0-1	/HPF	
RBC	NIL	/HPF	
Casts	ABSENT		
Crystals	ABSENT		
Bacteria	ABSENT		
Others	,		
Sample Type : Urine			
	Laboratorv		

#### **GLUCOSE FASTING**

Glucose, Fasting Sample Type : SERUM

74.5	mg/dl	70 - 110 mg/dl

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OR

• HbA1c ≥6.5%.

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OR

• HbA1c 5.7-6.4%

Note:

All abnormal results must be confirmed with a repeat test on a different day .
Protein 7.16 gm/dl 6.0 - 8.3 gm/dl
Sample Type : SERUM

	ENDOCRINE		
Thvroid Hormones (T3 ,T4 & TSH)			
Т3	1.14	ng/ml	0.60 - 1.81 ng/ml
T4	8.55	ng/dl	5.01 - 12.45 ng/dl
TSH Ultrasensitive	1.62	ulU/ml	0.3 - 4.5 ulU/ml
Sample Type : SERUM			

Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist





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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

--End of Report--

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Consultant Radiologist **Pr. 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