

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

Name : Mr. MANJEET S/o		UHID : 11275	51 S No :	PID : 24910
Age/Gender: 34 Year/Male	A.S : NP	Sample Date	e: 21-Mar-2024	11:12 AM
Ref. By Dr. : MEDIWHEEL		Report Date	: 21-Mar-2024	04:19 PM
Address : HISAR		Sample Type	e : Inside	*24910*
Test Name		Value	Unit	Reference Range
	HEAM	IATOLOGY		
CBC (Complete Blood Count)				
Haemoglobin (Hb)		14.0	g/dl	12.0 - 17.4 g/dl
Total RBC Count		5.53	m/cumm	4.70 - 6.10
Haematocrit		42.5	%	35.0 - 50.0 %
Mean Cell Volume		76.9	fL	80.0 - 100 fL
Mean Cell Haemoglobin		25.3	pg	27.0 - 34.0 pg
Mean Cell Haemoglobin Conc		32.9	%	32.0 - 36.0
Red Cell Distribution Width (RDW) - SD		43.2	fL	35.0 - 56.0 fL
Red Cell Distribution Width (RDW) - CV		14.3	%	11.0 - 16.0 %
Total Leucocyte Count		7370	cells/cum m	4000 - 11000
Differential Leucocyte Count				
Neutrophils		55	%	32 - 72 %
Lymphocytes		40	%	20 - 50 %
Monocytes		3	%	2 - 11 %
Eosinophils		2	%	1 - 3 %
Basophils		0	%	0 - 2 %
Platelet Count		2,41,000	cells/cunm m	150,000 - 450,000
Platelet Distribution Width		11.9	fL	15.0 - 18.0 fL
Mean Platelet Volume Sample Type : Whole Blood		9.8	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 Groupina

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		5.6	. %	4.27 - 6.00 [•] %
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

B"POSITIVE



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Age/Gender: 34 Year/Male	A.S : NP	Sample Date	: 21-Mar-2024	11:12 AM
Ref. By Dr. : MEDIWHEEL		Report Date	: 21-Mar-2024	04:25 PM
Address : HISAR		Sample Type :	Inside	*2491በ*
Test Name		Value	Unit	Reference Range
HBA1C				
Average Blood Glucose turbidimetric immunoassav Sample Type : Whole Blood		114.02	mg/dl	90.00 - 120.00 mg/dl
GLYCOSYLATED HEMOGLOBIN (HbA10 Reference Range : Please correlate with 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 AVERAGE BLOOD GLUCOSE (ABG) CA	clinical conditions. y technology to measu	re A1C and total HB (A	1C now Bayer)	
(-) -				
Reference Range: Please correlate with o 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 ca past three months. Technology: Derived from Hb A1C Values Sample Type: Sodium heparin:	linical conditions.	value and it indicates a	verage blood su	gar level over
Reference Range: Please correlate with o 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 ca past three months. Technology: Derived from Hb A1C Values	linical conditions.	value and it indicates a 15	verage blood su mmHr	gar level over 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





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Address	: HISAR	Sample Type : Inside	*24910*
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		4.46	mg/dL	3.5 - 7.2
Uricase - POD Sample Type :	SERUM			

URIC ACID: Increases in case of renal failure, disseminated neoplasms, pregnancy toxaemia, psoriasis, liver disease, sarcoidosis etc. Decrease is reported in Wilson's disease, Fanconi's syndrome, xanthinuria.

Glucose Fasting

Glucose, Fasting	105.6	mg/dl	70 - 100 mg/dl
Hexokinase / GOD - POD Glucose, Post Prandial	132.65	mg/dl	70 - 140 mg/dl
Hexokinase / GOD - POD Sample Type : SERUM			

BBS, D ARD, DNE Dr. Rambaksh Sharma MBBS, MD Consultant Radiologist

Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist

Dr. Amit Verma MBBS, MD Consultant Physician

Manish V ME Consultant Pat



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Ref. By Dr.	: MEDIWHEEL		Report Date : 2	1-Mar-2024	04:26 PM	
Address	: HISAR		Sample Type : Ins	ide	*24910*	J
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	1.1	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	0.90	mg/dl	0.20 - 1.00 mg/dl
Bilirubin Direct Serum	0.40	mg/dl	0.10 - 0.50 mg/dl
Bilirubin Indirect-Serum	0.50	mg/dl	0.20 - 0.70 mg/dl
SGOT	58.38	IU/L	10 - 40 IU/L
IFCC with Pvridoxal Phosphate SGPT	43.12	IU/L	07 - 56 IU/L
IFCC with Pvridoxal Phosphate Alkaline Phosphatase	138.7	U/L	44 - 147 U/L
IFCC PNPP Buffer Total Protein	7.12	gm/dl	6.0 - 8.3
BIURET Albumin	4.13	g/dl	3.5 - 5.5 g/dl
^{BCG} Globulin	2.99	gm/dl	2.0 - 3.5 gm/dl
AG RATIO	1.54		1.2 - 2.5
Sample Type : SERUM			

MBBS, DMRD, DNB Consultant Radiologist r. 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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(Name	: Mr. MANJEET S/o	UHID : 112	2751 S No :	PID : 24910	
	Age/Gender	: 34 Year/Male A.S	: NP Sample D	ate : 21-Mar-2024	11:12 AM	
	Ref. By Dr.	: MEDIWHEEL	Report Da	ate : 21-Mar-2024	05:08 PM	
	Address	: HISAR	Sample T	ype : Inside	*24910*	
	Test Name		Value	Unit	Reference Range	

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	216.90	mg/dl	<200.0 mg/dl
CHOD - PAP Triglycerides	126.45	mg/dl	< 150 mg/dl
GPO - PAP HDL Cholesterol	42.39	mg/dl	Adult males >45 mg/dl
Homogeneous Enzymatic Colorimetric test LDL Cholesterol	149.22	mg/dl	<100 mg/dl
VLDL Cholesterol	25.29	mg/dl	<30.0 mg/dl
CHO/HDL Ratio	5.12	mg/dl	Low risk 3.3-4.4
Non HDL Cholesterol Calculated	174.51	mg/dl	<130 mg/dl

Sample Type : SERUM

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		_
PHYSICAL EXAMINATION Colour	PALE-YELLOW	,	
Pale-yellow,Yellowish,Colorless,YELLOW Quantity	40	ml	
			Ċ

INVIAL DATUOLOON

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



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Address : HISAR		Sample Type : Ins	side	*24910*	
Test Name		Value	Unit	Reference Range	
pH		6.0			
Mucus		ABSENT			
Absent,Present					
Appearance		CLEAR			
Slightly turbid, Turbid, Clear					
Chemical Examination (Strip)		•			
Specific Gravity		1.020			
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		
Epithelial Cells		1-2	/HPF		
RBC		NIL	/HPF		
Casts		ABSENT			
Crystals		ABSENT			
Bacteria		ABSENT			
Others					
Sample Type : Urine					
Laboratory					
Protein		7.2	gm/dl	6.0 - 8.3 gm/dl	
Sample Type : SERUM			J	J	
	ENDOCR	INE			
Thvroid Hormones (T3 .T4 & TSH)					
		0.00	in ai (inal		
T3		0.98	ng/ml	0.60 - 1.81 ng/ml	
Τ4		10.23	ng/dl	5.01 - 12.45 ng/dl	
TSH Ultrasensitive		2.20	ulU/ml	0.34 - 5.50 ulU/ml	
Sample Type : SERUM					

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Address : HISAR		Sample Type : Inside	*24910*
Test Name		Value Unit	Reference Range

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 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