

PID: 24911

S No:

Name : Mrs. GULSHAN KUMARI W/o

Age/Gender: 29 Year/Female A.S: NP Sample Date : 21-Mar-2024 11:13 AM

UHID: 112752

Ref. By Dr. : **MEDIWHEEL** Report Date : 21-Mar-2024 04:12 PM

Address : HISAR Sample Type: Inside *24911*

Test Name	Value	Unit	Reference Range
	HEAMATOLOGY		
CBC (Complete Blood Count)			
Haemoglobin (Hb)	11.7	g/dl	12.0 - 15.0 g/dl
Total RBC Count	4.87	m/cumm	4.20 - 5.40
Haematocrit	36.4	%	35.0 - 50.0 %
Mean Cell Volume	74.8	fL	80.0 - 100 fL
Mean Cell Haemoglobin	24.0	pg	27.0 - 34.0 pg
Mean Cell Haemoglobin Conc	32.1	%	32.0 - 36.0
Red Cell Distribution Width (RDW) - SD	47.2	fL	35.0 - 56.0 fL
Red Cell Distribution Width (RDW) - CV	18.6	%	11.0 - 16.0 %
Total Leucocyte Count	7430	cells/cum	4000 - 11000
•		m	
Differential Leucocyte Count			
Neutrophils	60	%	32 - 72 %
Lymphocytes	35	%	20 - 50 %
Monocytes	3	%	2 - 11 %
Eosinophils	2	%	1 - 3 %
Basophils	0	%	0 - 2 %
Platelet Count	2,82,000	cells/cunm	150,000 - 450,000
		m	
Platelet Distribution Width	15.1	fL	15.0 - 18.0 fL
Mean Platelet Volume	10.9	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

B"POSITIVE **Blood Group**

Haemaqqlutination 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

5.7 4.27 - 6.00 % HBA1C

turbidimetric immunoassay

Dr. Amit Verma MBBS, MD Consultant Physician





HB से लेकर MRI तक एक ही छत के नीचे

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Value Unit **Test Name** Reference Range HBA1C 90.00 - 120.00 mg/dl Average Blood Glucose 116.89 mg/dl

Average 2.2 turbidimetric immunoassay 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 %-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/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

0 - 20 mmHr **ESR** 23 mmHr

Sample Type : Whole Blood





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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 4.36 mg/dL 2.5 - 6.0

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 98.7 mg/dl 70 - 100 mg/dl

Hexokinase / GOD - POD
Glucose, Post Prandial 114.5 mg/dl 70 - 140 mg/dl

Hexokinase / GOD - POD Sample Type : SERUM

Dr. (Maj.)Guruprasad MBBS, DMRD, DNB Dr. Rambaksh Sharma MBBS, MD Dr. 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 : Inside *24011*

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.*

• 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
- \bullet 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	6.4	gm/dl	6.0 - 8.3
BIURET Albumin	3.98	g/dl	2.9 - 4.5
BCG Globulin	2.42	gm/dl	2.0 - 3.5
Albumin-Globulin Ratio	1.56		1.2 - 2.5
Sample Type: SERUM			
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	38.98	IU/L	10 - 40 IU/L
IFCC with Pyridoxal Phosphate	0.4.70		07 50 11.11
SGPT IFCC with Pyridoxal Phosphate	24.70	IU/L	07 - 56 IU/L
Alkaline Phosphatase	122.1	U/L	44 - 147 U/L
IFCC PNPP Buffer Total Protein	7.4	gm/dl	6.0 - 8.3
BIURET Albumin	4.13	g/dl	3.5 - 5.5 g/dl
BCG Globulin	3.27	gm/dl	2.0 - 3.5 gm/dl

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

AG RATIO

Dr. Rambaksh Sharma MBBS, MD

Dr. RAJESH REDDU MBBS, DMRD Consultant Radiologist

1.58

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

1.2 - 2.5





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Test Name Value Unit Reference Range

Sample Type : **SFRUM** 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	135.72	mg/dl	<200.0 mg/dl
CHOD - PAP Triglycerides	85.2	mg/dl	< 150 mg/dl
GPO - PAP HDL Cholesterol	42.10	mg/dl	Adult females >55 mg/dl
Homogeneous Enzymatic Colorimetric test LDL Cholesterol	76.58	mg/dl	<100 mg/dl
VLDL Cholesterol	17.04	mg/dl	<30.0 mg/dl
CHO/HDL Ratio	3.22	mg/dl	Low risk 3.3-4.4
Non HDL Cholesterol	93.62	mg/dl	<130 mg/dl
Calculated			

Sample Type:

SFRUM

Interpretation

- 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.

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION

YELLOW Colour

Pale-yellow, Yellowish, Colorless, YELLOW

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Test Name	Value	Unit	Reference Range
Quantity	30	ml	
pH	6.0		
Mucus Absent,Present	ABSENT		
Appearance Slightly turbid, Turbid, Clear	TURBID		
Chemical Examination (Strip)			
Specific Gravity	1.025		
Albumin Absent,Present(+),Present(2+),Present(3+)	NEGATIVE		
Sugar Absent, Present(+), Present(2+), Present(3+)	NEGATIVE		
Bilirubin Absent,Present	NEGATIVE		
Microscopic Examination (Microscopy)			
Pus Cells	4-6	/HPF	
Epithelial Cells	2-4	/HPF	
RBC	NIL	/HPF	
Casts	ABSENT		
Crystals	ABSENT		
Bacteria	ABSENT		
Others			
Sample Type : Urine			

ENDOCRINE

Thvroid Hormones (T3 .T4 & TSH)			
Т3	1.21	ng/ml	0.60 - 1.81 ng/ml
T4	10.43	ng/dl	5.01 - 12.45 ng/dl
TSH Ultrasensitive	1.93	ulU/ml	0.34 - 5.50 uIU/mI



Sample Type:

SERUM





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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--