



Name : Mrs. AJITA DEVI W/o UHID : 112019 S No : PID : 24093  
Age/Gender : 41 Year/Female A.S : NP Sample Date : 8-Mar-2024 01:27 PM  
Ref. By Dr. : MEDIWHEEL Report Date : 8-Mar-2024 07:32 PM  
Address : HISAR Sample Type : Inside \*24093\*

Test Name	Value	Unit	Reference Range
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## HEAMATOLOGY

### CBC (Complete Blood Count)

Haemoglobin (Hb)	11.2	g/dl	12.0 - 15.0 g/dl
Total RBC Count	4.77	m/cumm	4.20 - 5.40
Haematocrit	33.9	%	35.0 - 50.0 %
Mean Cell Volume	71.0	fL	80.0 - 100 fL
Mean Cell Haemoglobin	22.9	pg	27.0 - 34.0 pg
Mean Cell Haemoglobin Conc	32.2	%	32.0 - 36.0
Red Cell Distribution Width (RDW) - SD	44.0	fL	35.0 - 56.0 fL
Red Cell Distribution Width (RDW) - CV	16.6	%	11.0 - 16.0 %
Total Leucocyte Count	9510	cells/cum m	4000 - 11000
Differential Leucocyte Count	.		
Neutrophils	65	%	32 - 72 %
Lymphocytes	30	%	20 - 50 %
Monocytes	03	%	2 - 11 %
Eosinophils	02	%	1 - 3 %
Basophils	0	%	0 - 2 %
Platelet Count	4,76,000	cells/cunm m	150,000 - 450,000
Platelet Distribution Width	12.4	fL	15.0 - 18.0 fL
Mean Platelet Volume	10.1	fL	7.0 - 13.0 fL

Sample Type : Whole Blood

- 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.
- 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.
- 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.
- 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

0<sup>+</sup> POSITIVE

Haemaagglutination 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

6.4 % 4.27 - 6.00 %

turbidimetric immunoassay



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Ref. By Dr. : MEDIWHEEL Report Date : 8-Mar-2024 03:38 PM  
Address : HISAR Sample Type : Inside \*24093\*

Test Name	Value	Unit	Reference Range
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## HBA1C

### Average Blood Glucose

136.98

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 %-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

ESR 12 mmHr 0 - 20 mmHr

Sample Type : Whole Blood

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

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MBBS, MD  
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Dr. RAJESH REDDU  
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Age/Gender : 41 Year/Female      A.S : NP      Sample Date : 8-Mar-2024      01:27 PM  
Ref. By Dr. : MEDIWHEEL      Report Date : 8-Mar-2024      01:54 PM  
Address : HISAR      Sample Type : Inside      \*24093\*

Test Name	Value	Unit	Reference Range
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### CLINICAL COMMENTS:

Erythrocyte sedimentation rate (ESR or sed rate) is a relatively simple, inexpensive, non-specific test 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	4.26	mg/dL	2.5 - 6.0
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Uricase - POD

Sample Type : SERUM

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

#### Glucose.Fasting

Glucose, Fasting	109.8	mg/dl	70 - 100 mg/dl
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Hexokinase / GOD - POD

Sample Type : SERUM

#### Total Protein

Total Protein	6.8	gm/dl	6.0 - 8.3
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BIURET



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Address : HISAR Sample Type : Inside \*24093\*

Test Name	Value	Unit	Reference Range
<b>Total Protein</b>			
Albumin	3.98	g/dl	2.9 - 4.5
BCG Globulin	2.82	gm/dl	2.0 - 3.5
Albumin-Globulin Ratio	1.16		1.2 - 2.5
Sample Type : SERUM			
<b>UREA. SERUM</b>			
UREA	33.68	mg/dL	14 - 51
KINETIC METHOD WITH UREASE AND GLDH Sample Type : SERUM			
UREA: High urea levels suggest poor kidney function, congestive heart failure, shock, stress, recent heart attack or severe burns; bleeding from the gastrointestinal tract; conditions that cause obstruction of urine flow; or dehydration. Low urea levels can be seen in severe liver disease or malnutrition but are not used to diagnose or monitor these conditions. Low urea levels are also seen in normal pregnancy.			
<b>CREATININE SERUM</b>			
CREATININE SERUM	0.7	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.			
<b>LIVER FUNCTION TEST (LFT) (S)</b>			
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	24.2	IU/L	10 - 40 IU/L
IFCC with Pyridoxal Phosphate SGPT	32.4	IU/L	07 - 56 IU/L
IFCC with Pyridoxal Phosphate Alkaline Phosphatase	123.4	U/L	44 - 147 U/L
IFCC PNPP Buffer Total Protein	6.8	gm/dl	6.0 - 8.3
BIURET Albumin	3.98	g/dl	3.5 - 5.5 g/dl
BCG Globulin	2.82	gm/dl	2.0 - 3.5 gm/dl
AG RATIO	1.53		1.2 - 2.5
Sample Type : SERUM			



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Ref. By Dr. : MEDIWHEEL      Report Date : 8-Mar-2024      01:56 PM  
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#### 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 injure 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 be elevated more than ALT like: (i)

#### Lipid Profile

<b>Cholesterol</b> CHOD - PAP	<b>212.4</b>	mg/dl	<200.0 mg/dl
<b>Triglycerides</b> GPO - PAP	148.7	mg/dl	< 150 mg/dl
<b>HDL Cholesterol</b> Homogeneous Enzymatic Colorimetric test	44.2	mg/dl	Adult females >55 mg/dl
<b>LDL Cholesterol</b>	138.46	mg/dl	<100 mg/dl
<b>VLDL Cholesterol</b>	29.74	mg/dl	<30.0 mg/dl
<b>CHO/HDL Ratio</b>	4.81	mg/dl	Low risk 3.3-4.4
<b>Non HDL Cholesterol</b> Calculated	168.2	mg/dl	<130 mg/dl

Sample Type : SERUM

#### Interpretation

#### Note

- 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.
- NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogenic lipoproteins such as LDL, VLDL, IDL, Lp(a), 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
Quantity	30 ml



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Test Name	Value	Unit	Reference Range
pH	6.5		
Mucus Absent,Present	ABSENT		
Appearance Slightly turbid,Turbid,Clear	TURBID		
<b>Chemical Examination (Strip)</b>	.		
Specific Gravity	1.025		
Albumin Absent,Present(+),Present(2+),Present(3+)	TRACE		
Sugar Absent,Present(+),Present(2+),Present(3+)	2(+)		
Bilirubin Absent,Present	NEGATIVE		
<b>Microscopic Examination (Microscopy)</b>	.		
Pus Cells	10-12	/HPF	
Epithelial Cells	6-8	/HPF	
RBC	NIL	/HPF	
Casts	ABSENT		
Crystals	ABSENT		
Bacteria	ABSENT		
Others			
Sample Type : Urine			

## Laboratory

Blood Sugar (PP) Blood Sugar PP	138.7	mg/dl	70.00 - 140.00 mg/dl
Sample Type : Others			

## ENDOCRINE

### Thyroid Hormones (T3 .T4 & TSH)

T3	0.76	ng/ml	0.60 - 1.81 ng/ml
T4	8.13	ng/dl	5.01 - 12.45 ng/dl
TSH (Thyroid stimulating hormones)	4.0	uIU/ml	0.34 - 5.50 uIU/ml
Sample Type : SERUM			

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#### Remarks :

Note1. 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 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 metabolically active.

3. Physiological rise in Total T3 and T4 level is seen in pregnancy and in patients on steroid therapy.

#### Clinical Use-

- \* Primary Hypothyroidism
- \* Hyperthyroidism
- \* Hypothalamic- Pituitary hypothyroidism
- \* Inappropriate-TSH secretion
- \* Nonthyroidal illness
- \* Autoimmune thyroid disease
- \* Pregnancy associated thyroid disorders
- \* Thyroid dysfunction in infancy and early childhood

--End of Report--

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