



Name : Mrs. NIRMALA RANI W/o UHID : 112024 S No : PID : 24098
Age/Gender : 40 Year/Female A.S : NP Sample Date : 8-Mar-2024 01:59 PM
Ref. By Dr. : MEDIWHEEL Report Date : 8-Mar-2024 02:11 PM
Address : HISAR Sample Type : Inside *24098*

Test Name	Value	Unit	Reference Range
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HEAMATOLOGY

CBC (Complete Blood Count)

Haemoglobin (Hb)	12.5	g/dl	12.0 - 15.0 g/dl
Total RBC Count	4.73	m/cumm	4.20 - 5.40
Haematocrit	35.8	%	35.0 - 50.0 %
Mean Cell Volume	75.7	fL	80.0 - 100 fL
Mean Cell Haemoglobin	26.4	pg	27.0 - 34.0 pg
Mean Cell Haemoglobin Conc	34.9	%	32.0 - 36.0
Red Cell Distribution Width (RDW) - SD	41.6	fL	35.0 - 56.0 fL
Red Cell Distribution Width (RDW) - CV	13.7	%	11.0 - 16.0 %
Total Leucocyte Count	5350	cells/cum m	4000 - 11000
Differential Leucocyte Count	.		
Neutrophils	50	%	32 - 72 %
Lymphocytes	45	%	20 - 50 %
Monocytes	03	%	2 - 11 %
Eosinophils	02	%	1 - 3 %
Basophils	0	%	0 - 2 %
Platelet Count	2,40,000	cells/cunm m	150,000 - 450,000
Platelet Distribution Width	14.2	fL	15.0 - 18.0 fL
Mean Platelet Volume	10.9	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

B⁺ 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	5.6	%	4.27 - 6.00 %
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turbidimetric immunoassay



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HBA1C

Average Blood Glucose	114.02	mg/dl	90.00 - 120.00 mg/dl
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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	26	mmHr	0 - 20 mmHr
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Sample Type : Whole Blood

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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	4.13	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	89.1	mg/dl	70 - 100 mg/dl
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Hexokinase / GOD - POD

Sample Type : SERUM

Total Protein

Total Protein	6.4	gm/dl	6.0 - 8.3
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BIURET



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Address : HISAR Sample Type : Inside *१४०१४*

Test Name	Value	Unit	Reference Range
Total Protein			
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			
UREA. SERUM			
UREA	29.2	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.			
CREATININE SERUM			
CREATININE SERUM	0.8	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	26.7	IU/L	10 - 40 IU/L
IFCC with Pyridoxal Phosphate SGPT	29.3	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	7.1	gm/dl	6.0 - 8.3
BIURET Albumin	4.13	g/dl	3.5 - 5.5 g/dl
BCG Globulin	2.97	gm/dl	2.0 - 3.5 gm/dl
AG RATIO	1.16		1.2 - 2.5
Sample Type : SERUM			



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Address : HISAR Sample Type : Inside *२४०९४*

Test Name	Value	Unit	Reference Range
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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

Cholesterol	139.8	mg/dl	<200.0 mg/dl
CHOD - PAP			
Triglycerides	110.5	mg/dl	< 150 mg/dl
GPO - PAP			
HDL Cholesterol	43.10	mg/dl	Adult females >55 mg/dl
Homogeneous Enzymatic Colorimetric test			
LDL Cholesterol	74.6	mg/dl	<100 mg/dl
VLDL Cholesterol	22.1	mg/dl	<30.0 mg/dl
CHO/HDL Ratio	3.24	mg/dl	Low risk 3.3-4.4
Non HDL Cholesterol	96.7	mg/dl	<130 mg/dl

Calculated

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 PALLE-YELLOW
Pale-yellow, Yellowish, Colorless, YELLOW
Quantity 30 ml



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Test Name	Value	Unit	Reference Range
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	1-2	/HPF	
RBC	NILL	/HPF	
Casts	ABSENT		
Crystals	ABSENT		
Bacteria	ABSENT		
Others			
Sample Type : Urine			

Laboratory

Blood Sugar (PP) Blood Sugar PP	134.7	mg/dl	70.00 - 140.00 mg/dl
Sample Type : Others			

ENDOCRINE

Thyroid Hormones (T3 .T4 & TSH)

T3	0.98	ng/ml	0.60 - 1.81 ng/ml
T4	8.10	ng/dl	5.01 - 12.45 ng/dl
TSH (Thyroid stimulating hormones)	4.35	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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