

Dr. Vinay Chopra
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Chairman & Consultant Pathologist

Dr. Yugam Chopra
MD (Pathology)
CEO & Consultant Pathologist

| | | | |
|-----------------------|--|--------------------------|------------------------|
| NAME | : Miss. SHUCHI SHAARMA | PATIENT ID | : 1582138 |
| AGE/ GENDER | : 22 YRS/FEMALE | REG. NO./LAB NO. | : 012408160039 |
| COLLECTED BY | : | REGISTRATION DATE | : 16/Aug/2024 12:21 PM |
| REFERRED BY | : | COLLECTION DATE | : 16/Aug/2024 12:22PM |
| BARCODE NO. | : 01515158 | REPORTING DATE | : 16/Aug/2024 01:51PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANTT | | |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

HAEMATOLOGY

HAEMOGLOBIN (HB)

| | | | |
|--|------|-------|-------------|
| HAEMOGLOBIN (HB) <i>by CALORIMETRIC</i> | 12.2 | gm/dL | 12.0 - 16.0 |
|--|------|-------|-------------|

INTERPRETATION:-

Hemoglobin is the protein molecule in red blood cells that carries oxygen from the lungs to the body's tissues and returns carbon dioxide from the tissues back to the lungs.

A low hemoglobin level is referred to as ANEMIA or low red blood count.

ANEMIA (DECREASED HAEMOGLOBIN):

- 1) Loss of blood (traumatic injury, surgery, bleeding, colon cancer or stomach ulcer)
- 2) Nutritional deficiency (iron, vitamin B12, folate)
- 3) Bone marrow problems (replacement of bone marrow by cancer)
- 4) Suppression by red blood cell synthesis by chemotherapy drugs
- 5) Kidney failure
- 6) Abnormal hemoglobin structure (sickle cell anemia or thalassemia).

POLYCYTHEMIA (INCREASED HAEMOGLOBIN):

- 1) People in higher altitudes (Physiological)
- 2) Smoking (Secondary Polycythemia)
- 3) Dehydration produces a falsely rise in hemoglobin due to increased haemoconcentration
- 4) Advanced lung disease (for example, emphysema)
- 5) Certain tumors
- 6) A disorder of the bone marrow known as polycythemia rubra vera,
- 7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen available to the body by chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLINICAL CHEMISTRY/BIOCHEMISTRY

LIVER FUNCTION TEST (COMPLETE)

| | | | |
|--|--------|-------|---|
| BILIRUBIN TOTAL: SERUM <i>by DIAZOTIZATION, SPECTROPHOTOMETRY</i> | 0.31 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT (CONJUGATED): SERUM <i>by DIAZO MODIFIED, SPECTROPHOTOMETRY</i> | 0.11 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM <i>by CALCULATED, SPECTROPHOTOMETRY</i> | 0.2 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM <i>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE</i> | 19.4 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM <i>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE</i> | 22.7 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SERUM <i>by CALCULATED, SPECTROPHOTOMETRY</i> | 0.85 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHATASE: SERUM <i>by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL</i> | 109.96 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM <i>by SZASZ, SPECTROPHOTOMETRY</i> | 14.05 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SERUM <i>by BIURET, SPECTROPHOTOMETRY</i> | 7.05 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM <i>by BROMOCRESOL GREEN</i> | 4.46 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM <i>by CALCULATED, SPECTROPHOTOMETRY</i> | 2.59 | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUM <i>by CALCULATED, SPECTROPHOTOMETRY</i> | 1.72 | RATIO | 1.00 - 2.00 |

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Reference Range.
USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

| | |
|---------------------|-------------------------|
| DRUG HEPATOTOXICITY | > 2 |
| ALCOHOLIC HEPATITIS | > 2 (Highly Suggestive) |
| CIRRHOSIS | 1.4 - 2.0 |



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| INTRAHEPATIC CHOLESTATIS | > 1.5 | | |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) | | |

DECREASED:

- Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)
- Extra Hepatic cholestasis: 0.8 (normal or slightly decreased).

PROGNOSTIC SIGNIFICANCE:

| | |
|----------------------|-----------|
| NORMAL | < 0.65 |
| GOOD PROGNOSTIC SIGN | 0.3 - 0.6 |
| POOR PROGNOSTIC SIGN | 1.2 - 1.6 |



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| UREA | | | |
| UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) | 15.84 | mg/dL | 10.00 - 50.00 |




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| CREATININE | | | |
| CREATININE: SERUM <i>by ENZYMATIC, SPECTROPHOTOMETRY</i> | 0.79 | mg/dL | 0.40 - 1.20 |

*** End Of Report ***



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