

REPORT

| | | | |
|--------------------|---------------------------------------|---------------|------------------------|
| Name | : Mr. MANOHAR | Sample ID | : A0093795 |
| Age/Gender | : 65 Years/Male | Reg. No | : 0312403080014 |
| Referred by | : Dr. SELF | SPP Code | : SPL-CV-172 |
| Referring Customer | : V CARE MEDICAL DIAGNOSTICS | Collected On | : 08-Mar-2024 08:59 AM |
| Primary Sample | : Whole Blood | Received On | : 08-Mar-2024 01:19 PM |
| Sample Tested In | : Whole Blood EDTA | Reported On | : 08-Mar-2024 03:01 PM |
| Client Address | : Kimtee colony ,Gokul Nagar, Tarnaka | Report Status | : Final Report |

HAEMATOLOGY

HEALTH PROFILE A-1 PACKAGE

| Test Name | Results | Units | Ref. Range | Method |
|-----------|---------|-------|------------|--------|
|-----------|---------|-------|------------|--------|

| | | | | |
|---|---|--|------------|-------------------|
| Erythrocyte Sedimentation Rate (ESR) | 6 | | 14 or less | Westergren method |
|---|---|--|------------|-------------------|

Comments : ESR is an acute phase reactant which indicates presence and intensity of an inflammatory process. It is never diagnostic of a specific disease. It is used to monitor the course or response to treatment of certain diseases. Extremely high levels are found in cases of malignancy, hematologic diseases, collagen disorders and renal diseases.

Complete Blood Count (CBC)

| | | | | |
|----------------------|-------------|---------------------|-----------|----------------|
| Haemoglobin (Hb) | 13.0 | g/dL | 13-17 | Cynmeth Method |
| RBC Count | 4.75 | 10 ¹² /L | 4.5-5.5 | Cell Impedance |
| Total WBC Count | 6.7 | 10 ⁹ /L | 4.0-10.0 | Impedance |
| Platelet Count (PLT) | 212 | 10 ⁹ /L | 150-410 | Cell Impedance |
| Haematocrit (HCT) | 41.1 | % | 40-50 | Calculated |
| MCV | 86 | fl | 81-101 | Calculated |
| MCH | 27.3 | pg | 27-32 | Calculated |
| MCHC | 31.6 | g/dL | 32.5-34.5 | Calculated |
| RDW-CV | 14.8 | % | 11.6-14.0 | Calculated |

Differential Count by Flowcytometry /Microscopy

| | | | | |
|-------------|----|---|-------|----------------|
| Neutrophils | 65 | % | 40-70 | Cell Impedance |
| Lymphocytes | 26 | % | 20-40 | Cell Impedance |
| Monocytes | 06 | % | 2-10 | Microscopy |
| Eosinophils | 03 | % | 1-6 | Microscopy |
| Basophils | 00 | % | 1-2 | Microscopy |

Smear

| | | |
|-----------|-------------------------|------------|
| WBC | Within Normal Limits | |
| RBC | Normocytic normochromic | |
| Platelets | Adequate. | Microscopy |



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MD PATHOLOGY

Result rechecked and verified for abnormal cases

Laboratory is NABL Accredited

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| Primary Sample | : Whole Blood | Received On | : 08-Mar-2024 01:19 PM |
| Sample Tested In | : Serum | Reported On | : 08-Mar-2024 05:56 PM |
| Client Address | : Kimtee colony ,Gokul Nagar,Tarnaka | Report Status | : Final Report |

CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-1 PACKAGE

| Test Name | Results | Units | Ref. Range | Method |
|------------------------------|---------|-------|------------|------------|
| Lipid Profile | | | | |
| Cholesterol Total | 135 | mg/dL | < 200 | CHOD-POD |
| Triglycerides-TGL | 124 | mg/dL | < 150 | GPO-POD |
| Cholesterol-HDL | 42 | mg/dL | 40-60 | Direct |
| Cholesterol-LDL | 68.2 | mg/dL | < 100 | Calculated |
| Cholesterol- VLDL | 24.8 | mg/dL | 7-35 | Calculated |
| Non HDL Cholesterol | 93 | mg/dL | < 130 | Calculated |
| Cholesterol Total /HDL Ratio | 3.21 | % | 0-4.0 | Calculated |
| HDL / LDL Ratio | 0.62 | | | |
| LDL/HDL Ratio | 1.62 | % | 0-3.5 | Calculated |

The National Cholesterol Education program's third Adult Treatment Panel (ATPIII) has issued its recommendations on evaluating and treating lipid disorders for primary and secondary.

| NCEP Recommendations | Cholesterol Total in (mg/dL) | Triglycerides in (mg/dL) | HDL Cholesterol (mg/dL) | LDL Cholesterol in (mg/dL) | Non HDL Cholesterol in (mg/dL) |
|----------------------|------------------------------------|--------------------------|-------------------------|-------------------------------------|--------------------------------|
| Optimal | Adult: < 200 Children: < 170 | < 150 | 40-59 | Adult:<100 Children: <110 | <130 |
| Above Optimal | ----- | ----- | | 100-129 | 130 - 159 |
| Borderline High | Adult: 200-239 Children:171-199 | 150-199 | | Adult: 130-159 Children: 111-129 | 160 - 189 |
| High | Adult:>or=240 Children:>or=200 | 200-499 | ≥ 60 | Adult:160-189 Children:>or=130 | 190 - 219 |
| Very High | ----- | >or=500 | | Adult: >or=190 ----- | >=220 |

Note: LDL cholesterol cannot be calculated if triglyceride is >400 mg/dL (Friedewald's formula). Calculated values not provided for LDL and VLDL



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CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-1 PACKAGE

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|---------------------------|---------|--------|------------|-------------------------------------|
| Kidney Profile-KFT | | | | |
| Creatinine -Serum | 1.01 | mg/dL | 0.70-1.30 | Sarcosine oxidase |
| Urea-Serum | 19.6 | mg/dL | 17.1-49.2 | Glutamate dehydrogenase+Calculation |
| Blood Urea Nitrogen (BUN) | 9.16 | mg/dL | 8.0-23.0 | Calculated |
| BUN / Creatinine Ratio | 9.07 | | 6 - 22 | |
| Uric Acid | 7.2 | mg/dL | 3.5-7.2 | Uricase |
| Sodium | 142 | mmol/L | 136-145 | ISE Direct |
| Potassium | 4.5 | mmol/L | 3.5-5.1 | ISE Direct |
| Chloride | 100 | mmol/L | 98-108 | ISE Direct |

Interpretation:

- The kidneys, located in the retroperitoneal space in the abdomen, are vital for patient health. They process several hundred liters of fluid a day and remove around two liters of waste products from the bloodstream. The volume of fluid that passes through the kidneys each minute is closely linked to cardiac output. The kidneys maintain the body's balance of water and concentration of minerals such as sodium, potassium, and phosphorus in blood and remove waste by-products from the blood after digestion, muscle activity and exposure to chemicals or medications. They also produce renin which helps regulate blood pressure, produce erythropoietin which stimulates red blood cell production, and produce an active form of vitamin D, needed for bone health.

Liver Function Test (LFT)

| | | | | |
|---------------------------------------|------|-------|-----------|--------------------------|
| Bilirubin(Total) | 0.8 | mg/dL | 0.2-1.2 | Diazo |
| Bilirubin (Direct) | 0.1 | mg/dL | 0.0 - 0.5 | Diazo |
| Bilirubin (Indirect) | 0.7 | mg/dL | 0.2-1.0 | Calculated |
| Aspartate Aminotransferase (AST/SGOT) | 20 | U/L | 5-48 | IFCC with out (P-5-P) |
| Alanine Aminotransferase (ALT/SGPT) | 25 | U/L | 0-55 | IFCC with out (P-5-P) |
| Alkaline Phosphatase(ALP) | 65 | U/L | 40-150 | Kinetic PNPP-AMP |
| Gamma Glutamyl Transpeptidase (GGTP) | 21 | U/L | 15-85 | IFCC |
| Protein - Total | 6.1 | g/dL | 6.4-8.2 | Biuret |
| Albumin | 3.5 | g/dL | 3.4-5.0 | Bromocresol purple (BCP) |
| Globulin | 2.6 | g/dL | 2.0-4.2 | Calculated |
| A:G Ratio | 1.35 | % | 0.8-2.0 | Calculated |
| SGOT/SGPT Ratio | 0.80 | | | |



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| Primary Sample | : Whole Blood | Received On | : 08-Mar-2024 01:19 PM |
| Sample Tested In | : Serum | Reported On | : 08-Mar-2024 02:24 PM |
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Thyroid Profile-I(TFT)

| | | | | |
|---|--------|--------|----------|------|
| T3 (Triiodothyronine) | 119.98 | ng/dL | 40-181 | CLIA |
| T4 (Thyroxine) | 12.0 | µg/dL | 3.2-12.6 | CLIA |
| TSH -Thyroid Stimulating Hormone | 3.90 | µIU/mL | 0.35-5.5 | CLIA |

Pregnancy & Cord Blood

| T3 (Triiodothyronine): | T4 (Thyroxine) | TSH (Thyroid Stimulating Hormone) |
|---------------------------------------|-------------------------------|------------------------------------|
| First Trimester : 81-190 ng/dL | 15 to 40 weeks:9.1-14.0 µg/dL | First Trimester : 0.24-2.99 µIU/mL |
| Second&Third Trimester :100-260 ng/dL | | Second Trimester: 0.46-2.95 µIU/mL |
| | | Third Trimester : 0.43-2.78 µIU/mL |
| Cord Blood: 30-70 ng/dL | Cord Blood: 7.4-13.0 µg/dL | Cord Blood: : 2.3-13.2 µIU/mL |

Interpretation:

- Thyroid gland is a butterfly-shaped endocrine gland that is normally located in the lower front of the neck. The thyroid's job is to make thyroid hormones, which are secreted into the blood and then carried to every tissue in the body. Thyroid hormones help the body use energy, stay warm and keep the brain, heart, muscles, and other organs working as they should.
- Thyroid produces two major hormones: triiodothyronine (T3) and thyroxine (T4). If thyroid gland doesn't produce enough of these hormones, you may experience symptoms such as weight gain, lack of energy, and depression. This condition is called hypothyroidism.
- Thyroid gland produces too many hormones, you may experience weight loss, high levels of anxiety, tremors, and a sense of being on a high. This is called hyperthyroidism.
- TSH interacts with specific cell receptors on the thyroid cell surface and exerts two main actions. The first action is to stimulate cell reproduction and hypertrophy. Secondly, TSH stimulates the thyroid gland to synthesize and secrete T3 and T4.
- The ability to quantitate circulating levels of TSH is important in evaluating thyroid function. It is especially useful in the differential diagnosis of primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.



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| Age/Gender | : 65 Years/Male | Reg. No | : 0312403080014 |
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| Primary Sample | : | Received On | : 08-Mar-2024 01:19 PM |
| Sample Tested In | : Urine | Reported On | : 08-Mar-2024 04:07 PM |
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CLINICAL PATHOLOGY

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Complete Urine Analysis (CUE)

Physical Examination

| | | |
|------------|-------------|----------------------|
| Colour | Pale Yellow | Straw to light amber |
| Appearance | Clear | Clear |

Chemical Examination

| | | | |
|--------------------|----------|---------------|---------------------------|
| Glucose | Negative | Negative | Strip Reflectance |
| Protein | Absent | Negative | Strip Reflectance |
| Bilirubin (Bile) | Negative | Negative | Strip Reflectance |
| Urobilinogen | Negative | Negative | Ehrlichs reagent |
| Ketone Bodies | Negative | Negative | Strip Reflectance |
| Specific Gravity | 1.030 | 1.000 - 1.030 | Strip Reflectance |
| Blood | Negative | Negative | Strip Reflectance |
| Reaction (pH) | 6.0 | 5.0 - 8.5 | Reagent Strip Reflectance |
| Nitrites | Negative | Negative | Strip Reflectance |
| Leukocyte esterase | Negative | Negative | Reagent Strip Reflectance |

Microscopic Examination (Microscopy)

| | | | | |
|---------------------|--------|--------|--------|-------------|
| PUS(WBC) Cells | 02-03 | /hpf | 00-05 | Microscopy |
| R.B.C. | Nil | /hpf | Nil | Microscopic |
| Epithelial Cells | 01-02 | /hpf | 00-05 | Microscopic |
| Casts | Absent | Absent | Absent | Microscopic |
| Crystals | Absent | Absent | Absent | Microscopic |
| Bacteria | Nil | Nil | Nil | |
| Budding Yeast Cells | Nil | Absent | Absent | Microscopy |

Correlate Clinically.

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*** End Of Report ***



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