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| Patient NAME : Dummy | Report STATUS : Final Report |
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| Test Description | Value(s) | Unit(s) | Reference Range |
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Fever Package- Advance

Complete Blood Count (CBC)

| RBC Parameters | | | |
|--|-------------|---------------------|-------------|
| Hemoglobin <i>Cyanide free spectrophotometry.</i> | 10.7 | g/dL | 12.0 - 15.0 |
| RBC Count <i>Electrical impedance</i> | 4.8 | 10 ⁶ /μl | 3.8 - 4.8 |
| PCV <i>Calculated</i> | 32.6 | % | 36 - 46 |
| MCV <i>Calculated</i> | 68.6 | fl | 83 - 101 |
| MCH <i>Calculated</i> | 22.6 | pg | 27 - 32 |
| MCHC <i>Calculated</i> | 33 | g/dL | 31.5 - 34.5 |
| RDW (CV) <i>Calculated</i> | 17.2 | % | 11.6 - 14.0 |
| RDW-SD <i>Calculated</i> | 32.6 | fl | 35.1 - 43.9 |
| WBC Parameters | | | |
| TLC <i>Electrical impedance and microscopy</i> | 11.9 | 10 ³ /μl | 4 - 10 |
| Differential Leucocyte Count | | | |
| Neutrophils <i>Flow-cytometry DHSS</i> | 70.7 | % | 35 - 45 |
| Lymphocytes <i>Flow-cytometry DHSS</i> | 20.2 | % | 50 - 65 |
| Monocytes <i>Flow-cytometry DHSS</i> | 7.2 | % | 2 - 10 |
| Eosinophils <i>Flow-cytometry DHSS</i> | 1.6 | % | 0 - 5 |
| Basophils <i>Flow-cytometry DHSS</i> | 0.3 | % | 0 - 1 |
| Absolute Leukocyte Counts | | | |
| Neutrophils. <i>Calculated</i> | 8.41 | 10 ³ /μl | 2 - 7 |
| Lymphocytes. <i>Calculated</i> | 2.4 | 10 ³ /μl | 1 - 3 |
| Monocytes. <i>Calculated</i> | 0.86 | 10 ³ /μl | 0.2 - 1.0 |
| Eosinophils. <i>Calculated</i> | 0.19 | 10 ³ /μl | 0.02 - 0.5 |
| Basophils. | 0.04 | 10 ³ /μl | 0.02 - 0.5 |

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| <i>Calculated</i> | | | |
| Platelet Parameters | | | |
| Platelet Count <i>Electrical impedance and microscopy</i> | 263 | 10 ³ /μl | 150 - 410 |
| Mean Platelet Volume (MPV) <i>Calculated</i> | 9.9 | fL | 9.3 - 12.1 |
| PCT <i>Calculated</i> | 0.3 | % | 0.17 - 0.32 |
| PDW <i>Calculated</i> | 19.9 | fL | 8.3 - 25.0 |
| P-LCR <i>Calculated</i> | 37.8 | % | 18 - 50 |
| P-LCC <i>Calculated</i> | 100 | 10 ⁹ /L | 44 - 140 |
| Mentzer Index <i>Calculated</i> | 14.29 | % | > 13 |

Interpretation:

CBC provides information about red cells, white cells and platelets. Results are useful in the diagnosis of anemia, infections, leukemias, clotting disorders and many other medical conditions.

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Erythrocyte Sedimentation Rate (ESR)

| | | | |
|--|-----------|-------|--------|
| ESR - Erythrocyte Sedimentation Rate <i>MODIFIED WESTERGREN</i> | 81 | mm/hr | 0 - 20 |
|--|-----------|-------|--------|

Interpretation:

ESR is also known as Erythrocyte Sedimentation Rate. An ESR test is used to assess inflammation in the body. Many conditions can cause an abnormal ESR, so an ESR test is typically used with other tests to diagnose and monitor different diseases. An elevated ESR may occur in inflammatory conditions including infection, rheumatoid arthritis, systemic vasculitis, anemia, multiple myeloma, etc. Low levels are typically seen in congestive heart failure, polycythemia, sickle cell anemia, hypo fibrinogenemia, etc.

Reference- Dacie and Lewis practical hematology

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Malarial Parasite (MP) Smear

| | | | |
|---|----------|---|----------|
| MP(PBF FOR MP) <i>Microscopy (Leishmans Stain)</i> | Not seen | - | Not seen |
|---|----------|---|----------|

Interpretation:

1. Malaria is a serious parasitic diseases characterized by fever, chills, and anemia and is caused by a parasite that is transmitted human to human by the bite of infected female Anopheles mosquitoes.
2. Malarial Parasite test is performed on the blood sample to find out the level of Malaria Parasite in the blood.
3. It is conducted to conclude on Malaria and also during the treatment and after the treatment of Malaria.
4. Most people will have symptoms within 14 days of being bitten by an infected mosquito. But symptoms can show up as soon as seven days afterward or can take as long as a year to appear.
5. Clinical decision should not be based on the results of this test, but should be made by the physician after all clinical and laboratory findings have been evaluated.

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Malaria Antigen, Rapid Card

| | | | |
|---|----------|---|----------|
| Plasmodium Vivax <i>Immunochromatographic</i> | Negative | - | Negative |
| Plasmodium falciparum <i>Immunochromatographic</i> | Negative | - | Negative |

Interpretation:

Immunochromatographic Assay done for Plasmodium falciparum using Histidine-Rich Protein-II (HRP-II) and Plasmodium species (Plasmodium falciparum, P. vivax, P. ovale and P. malariae) using lactate dehydrogenase (pLDH) in human whole blood.

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Bilirubin (Total, Direct, Indirect)

| | | | |
|---|------|-------|-----------|
| Bilirubin Total <i>Diazonium Salt</i> | 0.24 | mg/dL | 0.2 - 1.2 |
| Bilirubin Direct <i>Diazo Reaction</i> | 0.14 | mg/dL | 0.0 - 0.5 |
| Bilirubin Indirect <i>Calculated</i> | 0.1 | mg/dL | 0.1 - 1.0 |

Interpretation:

Adults and children

Increased total bilirubin that is mainly unconjugated (indirect) bilirubin may be a result of:-

1. Hemolytic or pernicious anemia
2. Transfusion reaction
3. Cirrhosis
4. A relatively common inherited condition called Gilbert syndrome, due to low levels of the enzyme that produces conjugated bilirubin.

Newborns

An elevated bilirubin level in a newborn may be temporary and resolve itself within a few days to two weeks. However, if the bilirubin level is above a critical threshold or increases rapidly, an investigation of the cause is needed so appropriate treatment can be initiated. Increased bilirubin concentrations may result from the accelerated breakdown of red blood cells due to:

1. Blood type incompatibility between the mother and her newborn
2. Certain congenital infections
3. Lack of oxygen (hypoxia)
4. Diseases that can affect the liver

In most of these conditions, only unconjugated (indirect) bilirubin is increased.

SGOT / AST

| | | | |
|---|------|-----|---------|
| SGOT/AST <i>Enzymatic [NADH (without P-5-P)]</i> | 14.6 | U/L | 11 - 34 |
|---|------|-----|---------|

Interpretation:

Serum AST is used for differential diagnosis of diseases of hepatobiliary system and pancreas. Increased values are seen in liver diseases like acute viral hepatitis, cirrhosis, biliary obstruction, primary or metastatic cancer, granuloma, hepatic ischaemia.

SGPT / ALT

| | | | |
|---|------|-----|------|
| SGPT/ALT <i>Enzymatic [NADH (without P-5-P)]</i> | 13.4 | U/L | < 34 |
|---|------|-----|------|

Interpretation:

Serum ALT is used for differential diagnosis of diseases of hepatobiliary system and pancreas. Increased in alcoholic hepatitis, cirrhosis, hepatocellular carcinoma, chronic hepatitis. Decreased in genito-urinary tract infection, malignancy, pyridoxal phosphate deficiency states (malnutrition, pregnancy, alcoholic liver disease).

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C-Reactive Protein (CRP), Quantitative

| | | | |
|---|-----------|------|---------|
| CRP (Quantitative) <i>Immunoturbidimetry</i> | 82 | mg/L | up to 5 |
|---|-----------|------|---------|

Please correlate clinically.

Interpretation:

Increased CRP level:

1. A high or increasing amount of CRP in the blood suggests the presence of inflammation but will not identify its location or the cause.
 2. Suspected bacterial infection—a high CRP level can provide indication that patient has an infection.
 3. Chronic inflammatory disease—high levels of CRP suggest a flare-up if you have a chronic inflammatory disease or that treatment has not been effective.
- If the CRP level is initially elevated and drops, it means that the inflammation or infection is subsiding and/or responding to treatment.

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WIDAL By Slide Agglutination

| | | | |
|---|------|-------|---------|
| Salmonella typhi O (TO) <i>Direct Agglutination Reaction</i> | 1:20 | Titre | < 1:80 |
| Salmonella typhi H (TH) | 1:40 | Titre | < 1:160 |
| Salmonella paratyphi A(H) | 1:20 | Titre | < 1:80 |
| Salmonella Paratyphi B(H) | 1:20 | Titre | < 1:80 |

Interpretation:

METHOD-(Slide Agglutination)

1. Titres >1:80 of "O" antigen & >1:160 of "H" antigen for Salmonella typhi and titres >1:80 of "H" antigen for Salmonella paratyphi A & B are reactive.
2. Rising titres in paired samples taken 7-10 days apart are more significant than a single test.
3. Reactive results indicates ongoing or recent infection by Salmonella spp. and the diagnosis should be confirmed by gold standard test such as Blood culture.
4. The reactivity will vary with stage of the disease with appearance in 1st week to increase in titres till end of 4th week post which it starts decreasing.
5. In TAB vaccinated patients, high titres of H antibody of $\geq 1:160$ to each of Salmonellae is observed. They tend to persist for many months and even years while O antibody shows lower titres and disappears within 6 months.
6. Antibiotic treatment during 1st week before the appearance of antibodies tend to suppress the immune response in the form of no or decreasing antibody levels.
7. False positive results/anamnestic response may be seen in patients with past enteric infection and during unrelated fevers like Malaria, Influenzae etc. in the form of transient rise in H antibody in Widal test.
8. False negative results may be due to processing of sample collected early in the course of disease (1st week) and immunosuppression.
9. Test conducted on serum.

Uses

- To diagnose infection due to Salmonella spp. (Enteric fever).
- To monitor the progression of disease.
- To assess the response to therapy (decreasing titres) in patients being treated for Enteric fever

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Typhidot IgM, Rapid Card

| | | | |
|---|----------|---|----------|
| TYPHI DOT/ SALMONELLA TYPHI IgM <i>Immunochromatographic</i> | Negative | - | Negative |
|---|----------|---|----------|

Interpretation:

| RESULTS | REMARKS |
|----------|--|
| Positive | Indicates presence of IgM antibodies against Salmonella typhi. |
| Negative | Indicates absence of IgM antibodies against Salmonella typhi. |

- Note:**
1. Its positivity in serum indicates ongoing or recent infection by Salmonella typhi and the diagnosis should be confirmed by gold standard test such as Blood culture prior to start of antibiotics.
 2. IgM antibodies are typically detectable 5-7 days post symptom onset, peaking in 2nd week and frequently remain elevated for 2-4 months following infection.
 3. False positive results may be due to cross reactivity with other Salmonella spp., Dengue virus infection & in patients with high levels of Rheumatoid factor.
 4. False negative reaction may be due to processing of sample collected early in the course of disease, antibiotic treatment during 1st week and immunosuppression.
 5. Test conducted on serum.

Use

To diagnose infection due to Salmonella typhi (Enteric fever).

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Dengue Ns1 Antigen Test, EIA

| | | | |
|---------------------------|-------|------------|----------------------------------|
| DENGUE NS1 ANTIGEN EIA | 0.205 | S/Co Ratio | <1 - NEGATIVE >= 1 - POSITIVE |
|---------------------------|-------|------------|----------------------------------|

Interpretation:

Clinical background: Dengue virus (serotypes Den 1,2,3,4) is a flavivirus with global distribution and is transmitted by mosquitoes (Aedes aegyptii, Aedes albopictus etc). It may cause Dengue fever, Dengue haemorrhagic fever or Dengue Shock syndrome. Following the dengue infection, an incubation period of 3 to5 days, some infections maybe asymptomatic. Symptomatic patients develop fever with or without rash, severe musculoskeletal pain, headache, retro-orbital pain, petechiae etc. In most individuals there is resolution of illness without complications. In some individuals the Dengue fever may progress to Dengue haemorrhagic fever or Dengue Shock syndrome especially during repeat infection with a new Dengue Virus serotype.

Interpretation: Dengue virus antigen usually appears in blood within 24 hours of onset of symptoms to symptoms till 9 days post onset of symptoms.

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Urine Routine and Microscopic Examination

| Physical Examination | | | |
|-----------------------------|----------------------|----|-------------|
| Volume | 15 | mL | - |
| Colour | Pale yellow | - | Pale yellow |
| Transparency | Slightly Hazy | - | Clear |
| Deposit | Present | - | Absent |

| Chemical Examination | | | |
|---|------------------------|---|---------------|
| Reaction (pH) <i>Double Indicator</i> | 6.0 | - | 4.5 - 8.0 |
| Specific Gravity <i>Ion Exchange</i> | 1.010 | - | 1.010 - 1.030 |
| Urine Glucose (sugar) <i>Oxidase / Peroxidase</i> | Negative | - | Negative |
| Urine Protein (Albumin) <i>Acid / Base Colour Exchange</i> | Negative | - | Negative |
| Urine Ketones (Acetone) <i>Legals Test</i> | Negative | - | Negative |
| Blood <i>Peroxidase Hemoglobin</i> | Positive(Trace) | - | Negative |
| Leucocyte esterase <i>Enzymatic Reaction</i> | Negative | - | Negative |
| Bilirubin Urine <i>Coupling Reaction</i> | Negative | - | Negative |
| Nitrite <i>Griless Test</i> | Negative | - | Negative |
| Urobilinogen <i>Ehrlichs Test</i> | Normal | - | Normal |

| Microscopic Examination | | | |
|--------------------------------|------------|------|--------|
| Pus Cells (WBCs) | 2-4 | /hpf | 0 - 5 |
| Epithelial Cells | 2-3 | /hpf | 0 - 4 |
| Red blood Cells | 4-6 | /hpf | Absent |
| Crystals | Absent | - | Absent |
| Cast | Absent | - | Absent |
| Yeast Cells | Absent | - | Absent |
| Amorphous deposits | Absent | - | Absent |
| Bacteria | Absent | - | Absent |
| Protozoa | Absent | - | Absent |

Interpretation:

URINALYSIS- Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders.

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever

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| <p>Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.</p> | | | |
| <p>Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.</p> | | | |
| <p>Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.</p> | | | |
| <p>Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.</p> | | | |
| <p>Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.</p> | | | |
| <p>pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.</p> | | | |
| <p>Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus.</p> | | | |
| <p>Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.</p> | | | |
| <p>Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of haemolytic anaemia.</p> | | | |

*** End Of Report ***

DISCLAIMER

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