

Patient NAME : Dummy	Report STATUS : Final Report
DOB/Age/Gender :	Barcode NO :
Patient ID / UHID :	Sample Type :
Referred BY :	Report Date :
Sample Collected :	

Test Description	Value(s)	Unit(s)	Reference Range
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Fever Package- Essential

Complete Blood Count (CBC)

RBC Parameters			
Hemoglobin <i>colorimetric</i>	13.1	g/dL	12.0 - 15.0
RBC Count <i>Electrical impedance</i>	5	10 ⁶ /μl	3.8 - 4.8
PCV <i>Calculated</i>	39.7	%	36 - 46
MCV <i>Calculated</i>	79.4	fl	83 - 101
MCH <i>Calculated</i>	26.1	pg	27 - 32
MCHC <i>Calculated</i>	32.9	g/dL	31.5 - 34.5
RDW (CV) * <i>Calculated</i>	13.1	%	11.6 - 14.0
RDW-SD * <i>Calculated</i>	37.9	fl	35.1 - 43.9
WBC Parameters			
TLC <i>Electrical impedance and microscopy</i>	9.59	10 ³ /μl	4 - 10
Differential Leucocyte Count			
Neutrophils	74.7	%	40-80
Lymphocytes	18.1	%	20-40
Monocytes	5.2	%	2-10
Eosinophils	1.5	%	1-6
Basophils	0.5	%	<2
Absolute Leukocyte Counts <i>Calculated</i>			
Neutrophils.	7.16	10 ³ /μl	2 - 7
Lymphocytes.	1.74	10 ³ /μl	1 - 3
Monocytes.	0.5	10 ³ /μl	0.2 - 1.0
Eosinophils.	0.14	10 ³ /μl	0.02 - 0.5
Basophils.	0.05	10 ³ /μl	0.02 - 0.5
Platelet Parameters			
Platelet Count <i>Electrical impedance and microscopy</i>	261	10 ³ /μl	150 - 410
Mean Platelet Volume (MPV) * <i>Calculated</i>	7.8	fL	9.3 - 12.1
PCT * <i>Calculated</i>	0.2	%	0.17 - 0.32

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PDW * <i>Calculated</i>	12.1	fL	8.3 - 25.0
P-LCR * <i>Calculated</i>	17.7	%	18 - 50
P-LCC * <i>Calculated</i>	46	10 ⁹ /L	44 - 140
Mentzer Index * <i>Calculated</i>	15.88	%	> 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>	46	mm/hr	0 - 14
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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</i>	Not Seen		NOT SEEN
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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	Negative		Negative
Plasmodium falciparum	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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SGOT / AST

SGOT/AST <i>IFCC with P5P</i>	32.3	U/L	0 - 35
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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>IFCC with P5P</i>	42.2	U/L	0 - 35
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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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WIDAL By Slide Agglutination

Salmonella typhi O (TO)	< 1:80	Titre	< 1:80
Salmonella typhi H (TH)	< 1:80	Titre	< 1:160
Salmonella paratyphi A(H)	< 1:80	Titre	< 1:80
Salmonella Paratyphi B(H)	< 1:80	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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Urine Routine and Microscopic Examination

Physical Examination *			
Volume *	15	ml	-
Colour *	Yellow	-	Pale yellow
Transparency *	Clear	-	Clear
Deposit *	Absent	-	Absent
Chemical Examination *			
Reaction (pH) <i>Double Indicator</i>	6.0	-	4.5 - 8.0
Specific Gravity <i>Ion Exchange</i>	1.015	-	1.010 - 1.030
Urine Glucose (sugar) <i>Oxidase / Peroxidase</i>	Positive(++)	-	Negative
Urine Protein (Albumin) <i>Acid / Base Colour Exchange</i>	Positive(+)	-	Negative
Urine Ketones (Acetone) <i>Legals Test</i>	Negative	-	Negative
Blood <i>Peroxidase Hemoglobin</i>	Negative	-	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) *	1-2	/hpf	0 - 5
Epithelial Cells *	1-2	/hpf	0 - 4
Red blood Cells *	Absent	/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 ***

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DISCLAIMER

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